Transferrin Receptor Monoclonal Antibody (H68.4)

Catalog Number: 13-6890

Details

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<td>Type</td>
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<tr>
<td>Clone</td>
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<tr>
<td>Immunogen</td>
<td>Recombinant human transferrin receptor.</td>
</tr>
<tr>
<td>Conjugate</td>
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<tr>
<td>Form</td>
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<tr>
<td>Concentration</td>
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<tr>
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<td>Affinity chromatography</td>
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<tr>
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<td>Storage Conditions</td>
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Species Reactivity

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<td>Yeast, Rat, Pig, Non-human primate, Virus, Insect, Mammal, Hamster, Bovine, Cat, Zebras, Human, Mouse, Not Applicable, Horse, Dog, C. elegans</td>
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Tested Applications

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<td>ELISA (ELISA)</td>
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<td>Immunohistochemistry (Paraffin) (IHC (P))</td>
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<td>Western Blot (WB)</td>
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<td>Immunocytochemistry (ICC/IF)</td>
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Published Applications

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<td>Western Blot (WB)</td>
<td>See 268 publications below</td>
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<td>Flow Cytometry (Flow)</td>
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<td>GST Pull Down (GPD)</td>
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<td>Immunocytochemistry (ICC/IF)</td>
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<td>Functional Assay (FN)</td>
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<td>in situ PLA (PLA)</td>
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<td>Miscellaneous PubMed (Misc)</td>
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<td>ELISA (ELISA)</td>
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Product specific information

H68.4 is specific to residues 3-28 of the human transferrin receptor (TfR) tail.

Background/Target Information

Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity for transferrin.
of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system. Serum transferrin receptor (sTfR) is used as a means of detecting erythropoietin (EPO) misuse by athletes and as a diagnostic test for anemias resulting from a number of conditions including rheumatoid arthritis, pregnancy, irritable bowel syndrome and in HIV patients.

Transferrin Receptor Antibody (13-6890)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in Transferrin Receptor KO cell line compared to control cell line using Anti-Transferrin Receptor Monoclonal Antibody (H68.4) (Product # 13-6800). {KO}

Transferrin Receptor Antibody (13-6890) in ICC/IF

Immunofluorescence analysis of Transferrin Receptor Monoclonal Antibody (H68.4) was performed using 70% confluent log phase MCF-7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Transferrin Receptor (H68.4) Mouse Monoclonal Antibody (Product # 13-6800) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

Transferrin Receptor Antibody (13-6890) in WB

Knockout of Transferrin Receptor was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR944258_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of Transferrin Receptor was performed by loading 30 µg of HeLa Wild Type (Lane 1), HeLa Cas9 (Lane 2) and HeLa Transferrin Receptor KO (Lane 3) whole cell extracts. The samples were electrophoresed using NuPAGE™ Novex™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Anti-Transferrin Receptor Monoclonal Antibody (H68.4) (Product # 13-6800, 0.5 µg/mL dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:5,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to Transferrin Receptor.
Transferrin Receptor Antibody (13-6890) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), HL-60 (Lane 2), HEL 92.1.7 (Lane 3), K-562 (Lane 4), PC-3 (Lane 5), LNCaP (Lane 6), DU 145 (Lane 7), MCF7 (Lane 8), MDA-MB-231 (Lane 9) and T47D (Lane 10). The blot was probed with Anti-Transferrin Receptor Mouse Monoclonal Antibody (Product # 13-6800, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A 90 kDa band corresponding to Transferrin Receptor was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescence detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

Transferrin Receptor Antibody (13-6890) in WB

Knockdown of Transferrin Receptor was achieved by transfecting HeLa cells with Transferrin Receptor specific validated siRNAs (Silencer® select Product # s725). Western blot analysis (Fig 1) was performed using whole cell extracts from the Transferrin Receptor knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with Anti-Transferrin Receptor Antibody, Mouse monoclonal (Product # 13-6800, 1 µg/mL) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig 2). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to Transferrin Receptor.
**PubMed References For Transferrin Receptor Monoclonal Antibody (H68.4)**

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<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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<tr>
<td><strong>Human / Not Cited</strong></td>
<td>13-6800 was used in Western Blotting to reveal a role for SNX27 in glutamine uptake and amino acid-stimulated mTORC1 activation via modulation of ASCT2 intracellular trafficking.</td>
</tr>
<tr>
<td><strong>Not Applicable / Not Cited</strong></td>
<td>13-6800 was used in western blot to study distinct and non-redundant functions of lipin 1 and 2</td>
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<tr>
<td><strong>Not Applicable / Not Cited</strong></td>
<td>13-6800 was used in Western Blotting to present a robust approach based on fluorescence recorrelation spectroscopy with ultra-high speed axial line scanning, yielding precise equilibrium dissociation coefficients of interactions in the Wnt signaling pathway.</td>
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<tr>
<td><strong>Hamster / Not Cited</strong></td>
<td>13-6800 was used in western blot to elucidate the interactions among Rab4a, Rabip4, and CD2AP</td>
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<tr>
<td><strong>Not Applicable / Not Cited</strong></td>
<td>13-6800 was used in western blot to investigate oligomerization of solute carrier family 30 member 3/zinc transporter 3</td>
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<tr>
<td>Species</td>
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Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts (“Documentation”). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, the warranty is limited to one year from date of shipment when the Product is shipped to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

Molecular pharmacology (Jan 2013; 83: 179)
"The iron chelator, deferasirox, as a novel strategy for cancer treatment: oral activity against human lung tumor xenografts and molecular mechanism of action."
Author(s):Lui GY,Obiedy P,Ford SJ,Tselepis C,Sharp DM,Jansson PJ,Kalinowski DS,Kovacevic Z,Lovejoy DB,Richardson DR
PubMed Article URL:http://dx.doi.org/10.1124/mol.112.081893


13-6800 was used in immunocytochemistry and western blot to elucidate the mechanism of TIR degradation.

**Methods in enzymology (Jul 2014; 534: 195)**
"Methods of analysis of the membrane trafficking pathway from recycling endosomes to lysosomes."
Author(s):Matsui T,Fukuda M
PubMed Article URL:http://dx.doi.org/10.1016/B978-0-12-397926-1.00011-1

13-6800 was used in western blot to examine the in vitro and in vivo activity of deferasirox against cells from human solid tumors.

**Molecular pharmacology (Jan 2013; 83: 179)**
"The iron chelator, deferasirox, as a novel strategy for cancer treatment: oral activity against human lung tumor xenografts and molecular mechanism of action."
Author(s):Lui GY,Obiedy P,Ford SJ,Tselepis C,Sharp DM,Jansson PJ,Kalinowski DS,Kovacevic Z,Lovejoy DB,Richardson DR
PubMed Article URL:http://dx.doi.org/10.1124/mol.112.081893

13-6800 was used in western blot to report a method to isolate complexes associated with integrin adhesion receptors

**Science signaling (Sep 2009; 2: )**
"Proteomic analysis of integrin-associated complexes identifies RCC2 as a dual regulator of Rac1 and Arf6."
Author(s):Humphries JD,Bryon A,Bass MD,Craig SE,Pinney JW,Knight D,Humphries MJ
PubMed Article URL:http://dx.doi.org/10.1126/scisignal.2000396

13-6800 was used in Western Blotting to determine whether the ciliary body transports iron, and if the prion protein facilitates this process as in the outer retina.

**Experimental eye research (Oct 2018; 175: 1)**
"Prion protein modulates iron transport in the anterior segment: Implications for ocular iron homeostasis and prion transmission."
Author(s):Ashok A,Karmakar S,Chandel R,Ravikumar R,Dalal S,Kong Q,Singh N
PubMed Article URL:http://dx.doi.org/10.1016/j.exer.2018.05.031

13-6800 was used in western blot to elucidate how nerve growth factor signaling affects chronic myelogenous leukemia cell lines

**Oncogene (Aug 2008; 27: 4678)**
"Inhibition of Abl tyrosine kinase enhances nerve growth factor-mediated signaling in Bcr-Abl transformed cells via the alteration of signaling complex and the receptor turnover."
PubMed Article URL:http://dx.doi.org/10.1038/onc.2008.107

13-6800 was used in western blot to identify signaling pathways affected by iron depletion induced by desferoxamine or di-2-pyridylketone-4,4-dimethyl-3-thiosemicarbazone.

**The Journal of biological chemistry (Apr 2011; 286: 15413)**
"Cellular iron depletion stimulates the JNK and p38 MAPK signaling transduction pathways, dissociation of ASK1-thioredoxin, and activation of ASK1."
Author(s):Yu Y,Richardson DR
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M111.225946

13-6800 was used in immunoprecipitation and western blot to study the regulation and function of soluble beta2microglobulin-HFE monochain and transferrin receptor

**Journal of cellular biochemistry (Apr 2004; 91: 1130)**
"Transferrin [corrected] receptor association and endosomal localization of soluble HFE are not sufficient for regulation of cellular iron homeostasis."
Author(s):Laham N,Rotem-Yehudar R,Shechter C,Coligan JE,Ehrlich R
PubMed Article URL:http://dx.doi.org/10.1002/jcb.200015

13-6800 was used in western blot to report a method to isolate complexes associated with integrin adhesion receptors

**FEBS letters (May 2002; 518: 101)**
"Association of human transferrin receptor with GABARAP."
Author(s):Green F,O'Hare T,Blackwell A,Enns CA
PubMed Article URL:http://dx.doi.org/10.1016/s0014-5793(02)02655-8
**Human / Not Cited**

13-6800 was used in Western blot to study the effect of protein kinase D1-dependent phosphorylation of dopamine D1 receptor on cocaine-induced behavioral responses.

Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology (Apr 2014; 39: 1290)  
"Protein kinase D1-dependent phosphorylation of dopamine D1 receptor regulates cocaine-induced behavioral responses."  
PubMed Article URL:http://dx.doi.org/10.1038/npp.2013.341

**Human / 1:7500**

13-6800 was used in Western Blotting to demonstrate that PAG1 directs SFK intracellular localization to control activity and to mediate signaling by RTKs that induce neuronal differentiation.

Molecular biology of the cell (Sep 2020; 31: 2269)  
PAG1 directs SRC-family kinase intracellular localization to mediate receptor tyrosine kinase-induced differentiation."  
Author(s): Foltz L,Palacios-Moreno J,Mayfield M,Kinch S,Dillon J,Syrenne J,Levy T,Grimes M  
PubMed Article URL:http://dx.doi.org/10.1019/mbc.E20-02-0135

**Human / 1:500**

13-6800 was used in Western Blotting to investigate the effect of renal iron accumulation on renal injury in systemic lupus erythematosus in mice.

**Mouse / Not Cited**

13-6800 was used in Western Blotting to investigate the mechanism by which hepatic MUFA production influences adipose tissue stores using transgenic mice.

**Human / 1:2000**

13-6800 was used in western blot to elucidate the antigenic region of the NMDA receptor.

**Rat / Not Cited**

13-6800 was used in western blot to investigate the role of ADAM17 in the regulated release of multiple cytokine and growth factor signals.

**Mouse / Not Cited**

13-6800 was used in Western Blotting to examine the role of ADAM17 in the regulated release of multiple cytokine and growth factor signals.

**Human / 1:2,000**

13-6800 was used in Western Blotting to demonstrate that PAG1 directs SFK intracellular localization to control activity and to mediate signaling by RTKs that induce neuronal differentiation.

**Mouse / Not Cited**

13-6800 was used in Western Blotting to investigate the effect of renal iron accumulation on renal injury in systemic lupus erythematosus in mice.

**Human / 1:500**

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**Human / 1:2500**

13-6800 was used in Western Blotting to examine the role of ADAM17 in the regulated release of multiple cytokine and growth factor signals.

**Mouse / Not Cited**

13-6800 was used in Western Blotting to examine the role of ADAM17 in the regulated release of multiple cytokine and growth factor signals.

**Human / 1:2,000**

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**Human / 1:2,000**

13-6800 was used in Western Blotting to examine the role of ADAM17 in the regulated release of multiple cytokine and growth factor signals.
The Journal of biological chemistry (Jul 2005; 280: 26796)
"Epidermal growth factor receptors are localized to lipid rafts that contain a balance of inner and outer leaflet lipids: a shotgun lipidomics study."
Author(s): Pike LJ, Han X, Gross RW
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M503805200

Hamster / Not Cited
13-6800 was used in western blot to elucidate how endoplasmic reticulum-to-Golgi transport is blocked during mitosis

Not Applicable / Not Cited
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"Regulation of a COPII component by cytosolic O-glycosylation during mitosis."
Author(s): Dudognon P, Maeder-Garavaglia C, Carpentier JL, Pascaud JP
PubMed Article URL: http://dx.doi.org/10.1016/S0014-5793(04)00109-7

Mouse / 1:500
Frontiers in neuroscience (Sep 2020; 10: )
"In Absence of the Cellular Prion Protein, Alterations in Copper Metabolism and Copper-Dependent Oxidase Activity Affect Iron Distribution."
Author(s): Gasperini L, Meneghetti E, Legname G, Benetti F
PubMed Article URL: http://dx.doi.org/10.3389/fnins.2020.00437

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Neuron (Jun 2020; 106: 759)
"A Cluster of Autism-Associated Variants on X-Linked NLGN4X Functionally Resemble NLGN4Y."
PubMed Article URL: http://dx.doi.org/10.1016/j.neuron.2020.03.008

Not Applicable / 1:1000
Journal of cell science (Jan 2006; 119: 85)
"Geldanamycin stimulates internalization of ErbB2 in a proteasome-dependent way."
Author(s): Lerdrup M, Hommelgaard AM, Grandal M, van Deurs B
PubMed Article URL: http://dx.doi.org/10.1242/jcs.02707

Mouse / 1:2000
Cancer discovery (Mar 2021; 11: 678)
"The Lipogenic Regulator SREBP2 Induces Transferrin in Circulating Melanoma Cells and Suppresses Ferroptosis."
PubMed Article URL: http://dx.doi.org/10.1158/2159-8290.CD-19-1500

Zebrafish / Not Cited
Proceedings of the National Academy of Sciences of the United States of America (Jul 2012; 109: 12099)
"Critical function for the Ras-GTPase activating protein RASA3 in vertebrate erythropoiesis and megakaryopoiesis."
Author(s): Blanc L, Cicciotte SL, Gwynn B, Hildick-Smith GJ, Pierce EL, Soltis KA, Cooney JD, Paw BH, Peters LL
PubMed Article URL: http://dx.doi.org/10.1073/pnas.1204948109

Human / Not Cited
Cell reports (Nov 2018; 25: 2470)
"PKC Inhibits Neuronal Dendritic Spine Development through Dual Phosphorylation of Ephexin5."
Author(s): Schaffer TB, Smith JE, Cook EK, Phan T, Margolis SS
PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2018.11.005

Human / Not Cited
Cell biology international (Oct 2012; 36: 901)
"Nitric oxide induces segregation of decay accelerating factor (DAF or CD55) from the membrane lipid-rafts and its internalization in human endometrial cells."
Author(s): Banadakoppa M, Goluszko P, Liebenthal D, Yallampalli C
PubMed Article URL: http://dx.doi.org/10.1042/12110586

13-6800 was used in western blot to explore the intracellular transport of occludin in fibroblastic and epithelial cells.

**Methods in molecular biology (Clifton, N.J.) (May 2008; 440: 89)**

"Cell-surface biotinylation to study endocytosis and recycling of occludin."

**Author(s):** Nishimura N, Sasaki T

**PubMed Article URL:** http://dx.doi.org/10.1007/978-1-59745-178-9_7

**Not Applicable / Not Cited**

13-6800 was used in Western Blotting to investigate the underlying mechanisms for the neuroprotective effect of capsaicin.

**Experimental neurology (Sep 2017; 295: 66)**

"Capsaicin protects cortical neurons against ischemia/reperfusion injury via down-regulating NMDA receptors."

**Author(s):** Huang M, Cheng G, Tan H, Qin R, Zou Y, Wang Y, Zhang Y

**PubMed Article URL:** http://dx.doi.org/10.1016/j.expneurol.2017.05.001

**Rat / Not Cited**

13-6800 was used in western blot to study native cerebellar iFGF14 complexes by proteomic analysis.

**Journal of neuroscience research (Oct 2005; 82: 214)**

"Notch 1 interacts with the amyloid precursor protein in a Numb-independent manner."

**Author(s):** Fassa A, Mehta P, Ethimiopoulos S

**PubMed Article URL:** http://dx.doi.org/10.1002/prj.20642

**Human / Not Cited**

13-6800 was used in western blot to study phosphorylation events at sites of adhesion.

**Nature communications (Feb 2015; 6: )**

"Defining the phospho-adhesome through the phosphoproteomic analysis of integrin signalling."

**Author(s):** Robertson J, Jacquemet G, Byron A, Jones MC, Warwood S, Selleyn JN, Knight D, Humphries JD, Humphries MJ

**PubMed Article URL:** http://dx.doi.org/10.1038/ncomms7265

**Not Applicable / 1:500**

Channels (Austin, Tex.) (Jul 2016; 10: 297)

"Proteomic analysis of native cerebellar iFGF14 complexes."

**Author(s):** Bosch MK, Nerbonne JM, Townsend RR, Miyazaki H, Nukina N, Ornitz DM, Marionneau C

**PubMed Article URL:** http://dx.doi.org/10.1080/19336950.2016.1153203

**Mouse / 1:1000**

The Journal of biological chemistry (Aug 1999; 274: 22303)

"Rab15 mediates an early endocytic event in Chinese hamster ovary cells."

**Author(s):** Zuk PA, Elferink LA

**PubMed Article URL:** http://dx.doi.org/10.1074/jbc.274.32.22303

**Hamster / Not Cited**

13-6800 was used in western blot to study phosphorylation events at sites of adhesion.


"Human cytomegalovirus-encoded US2 differentially affects surface expression of MHC class I locus products and targets membrane-bound, but not soluble HLA-G1 for degradation."

**Author(s):** Barel MT, Ressing M, Pizzato N, van Leeuwen D, Le Bouteiller P, Lenfant F, Wiertz EJ

**PubMed Article URL:** http://dx.doi.org/10.4049/jimmunol.171.12.6757

**Human / Not Cited**

13-6800 was used in western blot to explore the importance of sterol specificity for the structure and function of caveolae.

**Nature communications (May 2008; 283: 14610)**

"Cholesterol substitution increases the structural heterogeneity of caveolae."

**Author(s):** Jansen M, Pietilainen VM, Pölönen H, Rasilainen L, Koivusalo M, Roolvsaal P, Ruotsalainen U, Jokitalo E, Ikken E

**PubMed Article URL:** http://dx.doi.org/10.1074/jbc.M710355200

**Not Applicable / Not Cited**

13-6800 was used in Flow cytometry/Cell sorting to suggest that the use of engineered bionanocages also offers unprecedented opportunities for selective targeted chemotherapy of solid tumors in veterinary medicine.

**Cancers (Mar 2021; 13: )**

"Evaluation of TFR-1 Expression in Feline Mammary Cancer and In Vitro Antitumor Efficacy Study of Doxorubicin-Loaded H-Ferritin Nanocages."


**PubMed Article URL:** http://dx.doi.org/10.3390/cancers13061248

**Cat / Not Cited**

13-6800 was used in Western Blotting to reveal the prevalence of iron homeostasis in breast CSCs, identifying iron and iron-mediated processes as potential targets against these cells.


"Salinomycin kills cancer stem cells by sequestering iron in lysosomes."


**PubMed Article URL:** http://dx.doi.org/10.1038/nchem.2778

**Human / 1:1,000**

Nature chemistry (Oct 2017; 9: 1025)

"Salinomycin kills cancer stem cells by sequestering iron in lysosomes."


**PubMed Article URL:** http://dx.doi.org/10.1038/nchem.2778


**Thermo Fisher Scientific**
3747 N. Meridian Road
Rockford, IL 61015 USA
13-6800 was used in western blot to investigate the effect of EGFR ligands on receptor internalization and endocytic sorting.

Traffic (Copenhagen, Denmark) (Aug 2009; 10: 1115)
"Differential effects of EGFR ligands on endocytic sorting of the receptor."
Author(s): Roepstorff K, Granalot MV, Henriksen L, Knudsen SL, Lerdrup M, Grevedal L, Willumsen BM, van Deurs B
PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0854.2009.00943.x

136890 was used in western blot to elucidate the role of TIR1 in adaptive immunity.

Not Applicable / Not Cited

Human / Not Cited

Nature genetics (Jan 2016; 48: 74)
"A missense mutation in TFRC, encoding transferrin receptor 1, causes combined immunodeficiency."
PubMed Article URL: http://dx.doi.org/10.1038/ng.3465

13-6800 was used in Western Blotting to investigate whether TIR1 deletion attenuates LI formation.

Mouse / 1:1000

Scientific reports (Sep 2019; 9:)
"Haploinsufficiency of Transferrin Receptor 1 Impairs Angiogenesis with Reduced Mitochondrial Complex I in Mice with Limb Ischemia."
Author(s): Okuno K, Naito Y, Yasumura S, Sawada H, Asakura M, Masuyama T, Ishihara M
PubMed Article URL: http://dx.doi.org/10.1038/s41598-019-49983-4

13-6800 was used in western blot to investigate the function of protein kinase CK2 in lipid rafts.

Rat / Not Cited

FEBS letters (Jan 2011; 585: 414)
"Protein kinase CK2 associates to lipid rafts and its pharmacological inhibition enhances neurotransmitter release."
Author(s): Gil C, Faqués A, Sarró E, Cubí R, Blasi J, Aguiler J, Itarte E
PubMed Article URL: http://dx.doi.org/10.1016/j.jfbslet.2010.12.029

13-6800 was used in Western Blotting to study how intra- and interfamily delta-protocadherin interactions can greatly amplify the impact of this small subfamily on neuronal function.

Mouse / 1:1,000

eLife (Dec 2018; 7:)
"Tuning of delta-protocadherin adhesion through combinatorial diversity."
Author(s): Bisogni AJ, Ghazanfar S, Williams EO, Marsh HM, Yang JY, Lin DM
PubMed Article URL: http://dx.doi.org/10.7554/eLife.41050

13-6890 was used in western blot to report an unbiased global view of SNX27-mediated sorting.

Human / 1:1000

"A global analysis of SNX27-retromer assembly and cargo specificity reveals a function in glucose and metal ion transport."
Author(s): Steinberg F, Gallon M, Winfield M, Thomas EC, Bell AJ, Heesom KJ, Tavare JM, Cullen PJ
PubMed Article URL: http://dx.doi.org/10.1038/rcb2721

13-6800 was used in Western Blotting to determine the role of KCC2-protein interactions in regulating total and surface membrane KCC2 expression.

Mouse / 1:1,000

The Journal of biological chemistry (Apr 2017; 292: 6190)
"A kainate receptor subunit promotes the recycling of the neuron-specific K<sup>+</sup>-Cl<sup>-</sup> co-transporter KCC2 in hippocampal neurons."
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M116.767236

13-6800 was used in western blot to test if Rab11b affects plasmalemmal expression of Ca(v)1.2.

13-6800 was used in western blot to investigate whether TfR1 deletion attenuates LI formation.

Human / Not Cited

American journal of physiology. Cell physiology (May 2011; 300: C1023)
"SIP1-mediated Rab11b regulates degradation of surface membrane L-type Cav1.2 channels."
Author(s): Best JM, Foell JD, Buss CR, Delisle BP, Biliappali RC, January CT, Kamp TJ
PubMed Article URL: http://dx.doi.org/10.1152/ajpcell.00288.2010

13-6800 was used in western blot to determine whether 13-6890 was used in the role of myotonic dystrophy in increased tumor necrosis factor factor.

Human / Not Cited

The Journal of biological chemistry (Aug 2008; 283: 22457)
"The RNA-binding protein CUGBP1 regulates stability of tumor necrosis factor mRNA in muscle cells: implications for myotonic dystrophy."
Author(s): Zhang L, Lee JE, Wilusz J, Wilusz CJ
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M802803200


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Mouse / Not Cited
13-6800 was used in Western Blotting to show that mZnR/GPR39-dependent upregulation of KCC2 activity provides homeostatic adaptation to an excitotoxic stimulus by increasing inhibition.

Neurobiology of disease (Sep 2015; 81: 4)
"Homeostatic regulation of KCC2 activity by the zinc receptor mZnR/GPR39 during seizures."
Author(s): Gilad D, Shorer S, Ketzeff M, Friedman A, Sekler I, Aizenman E, Hershfinkel M

Not Applicable / 1:1000
13-6800 was used in western blot to examine iron metabolism in liver tumors

Toxicology letters (Feb 2009; 184: 151)
"Regulation of iron metabolism-related genes in diethylnitrosamine-induced mouse liver tumors."
Author(s): Youn P, Kim S, Ahn JH, Kim Y, Park JD, Ryu DY

Mouse / Not Cited
13-6800 was used in western blot to find a developmental role for LAT3 in red blood cells and report that mTORC1 acts as a homeostatic sensor

Science signaling (Apr 2015; 8)
"The mTORC1/4E-BP pathway coordinates hemoglobin production with L-leucine availability."
PubMed Article URL: http://dx.doi.org/10.1126/scisignal.aaa5903

Human / 1:500
13-6800 was used in western blot to examine the raft and cytoskeletal proteins from intrauterine growth restriction and preclampsia.

The Journal of membrane biology (Jun 2011; 241: 127)
"Lipid rafts and cytoskeletal proteins in placental microvilli membranes from preeclamptic and IUGR pregnancies."
Author(s): Riquelme G, Valletjos C, de Gregorio N, Morales B, Godoy V, Berrios M, Bastías N, Rodríguez C
PubMed Article URL: http://dx.doi.org/10.1007/s00232-011-9369-3

Human / Not Cited
13-6800 was used in Western Blotting to implicate the failure of the ER-endosome contact process in axonopathy.

The Journal of biological chemistry (Mar 2007; 282: 6201)
"The Cytoplasmic domain of transferrin receptor 2 dictates its stability and response to holo-transferrin in Hep3B cells."
Author(s): Chen J, Enns CA
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Human / Not Cited
13-6800 was used in western blot to study the effect of mDab1 on amyloid precursor protein processing

Neurobiology of aging (Mar 2007; 28: 377)
"Expression of mDab1 promotes the stability and processing of amyloid precursor protein and this effect is counteracted by X11alpha."
Author(s): Parisiadou L, Ethimiopoulos S

Not Applicable / Not Cited
13-6800 was used in western blot to examine AP-3-dependent synaptic vesicle biogenesis

The Journal of neuroscience : the official journal of the Society for Neuroscience (Jan 2010; 30: 820)
"Hermansky-Pudlak protein complexes, AP-3 and BLOC-1, differentially regulate presynaptic composition in the striatum and hippocampus."
Author(s): Newell-Litwa K, Chintala S, Jenkins S, Pare JF, McGaha L, Smith Y, Faundez V
PubMed Article URL: http://dx.doi.org/10.1016/j.jneurosci.2010.09.059

Not Applicable / Not Cited
13-6800 was used in western blot to compare the relationship between BACE1 and ubiquitin-1 in human Alzheimer's disease, APdE9 transgenic mouse brain and cell-based models

Neurobiology of disease (Jan 2016; 85: 187)
"Relationship between ubiquitin-1 and BACE1 in human Alzheimer's disease and APdE9 transgenic mouse brain and cell-based models."
PubMed Article URL: http://dx.doi.org/10.1016/j.nbd.2015.11.005

13-6800 was used in Western Blotting to show that Wnt signaling coreceptor LR6P folding is promoted by lysine ubiquitination, retaining it in the ER while avoiding degradation.

**Human / Not Cited**

eLife (Oct 2016; 5: )

"Ubiquitin-dependent folding of the Wnt signaling coreceptor LR6P."

Author(s): Perrody E, Abrami L, Feldman M, Kunz B, Urbé S, van der Goot FG

PubMed Article URL: http://dx.doi.org/10.7554/eLife.09830

13-6800 was used in Western Blotting to identify different expression of iron proteins indicating increased iron content, oxidative stress and higher expression of cancer stem cell markers in Cholangiocarcinoma-SPH.

**Human / 1:500**

Scientific reports (Dec 2017; 7: )

"Dysregulation of Iron Metabolism in Cholangiocarcinoma Stem-like Cells."


PubMed Article URL: http://dx.doi.org/10.1038/s41598-017-17804-1

13-6890 was used in western blot to analyze alteration of fetal iron distribution and elevation of hepatic hepcidin in a rat model of fetal alcohol spectrum disorders caused by prenatal alcohol exposure.

**Not Applicable / 1:2000**

The Journal of nutrition (Jun 2016; 146: 1180)

"Prenatal Alcohol Exposure Alters Fetal Iron Distribution and Elevates Hepatic Hepcidin in a Rat Model of Fetal Alcohol Spectrum Disorders."

Author(s): Huebner SM, Blohowiak SE, Kling PJ, Smith SM

PubMed Article URL: http://dx.doi.org/10.3945/jn.115.227983

13-6800 was used in Western Blotting to propose a new function for Scribble in Rho regulation that entails positioning of DLC3 GAP activity at cell junctions in polarized epithelial cells.

**Human / 1:1000**

Journal of cell science (Oct 2016; 129: 3583)

"The polarity protein Scribble positions DLC3 at adherens junctions to regulate Rho signaling."

Author(s): Hendrick J, Franz-Wachtel M, Moeller Y, Schmid S, Macek B, Olayioye MA

PubMed Article URL: http://dx.doi.org/10.1242/jcs.190074

13-6800 was used in Western Blotting to reveal the role of the viral matrix proteins in the release of influenza A virus particles via the RACK1-mediated pathway.

**Human / Not Cited**

Cellular microbiology (May 2012; 14: 774)

"Interaction of influenza A virus matrix protein with RACK1 is required for virus release."

Author(s): Demirov D, Gabriel G, Schneider C, Hohenberg H, Ludwig S

PubMed Article URL: http://dx.doi.org/10.1111/j.1462-5822.2012.01759.x

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**Human / 1:1000**


"Nrf2 activity is lost in the spinal cord and its astrocytes of aged mice."

Author(s): Duan W, Zhang R, Guo Y, Jiang Y, Huang Y, Jiang H, Li C

PubMed Article URL: http://dx.doi.org/10.1007/s11626-009-9194-5

13-6800 was used in western blot to study aging and the loss of antioxidant tolerance capacity.

**Not Applicable / 1:500**

Cellular microbiology (Jul 2010; 12: 891)

"Transcriptome dysregulation by anthrax lethal toxin plays a key role in induction of human endothelial cell cytotoxicity."


PubMed Article URL: http://dx.doi.org/10.1111/j.1462-5822.2010.01438.x

13-6800 was used in western blot to study how Bacillus anthracis lethal toxin promotes caspase-3 activation and the formation of thick actin cables in human endothelial cells.

**Not Applicable / Not Cited**

Cellular microbiology (Dec 2017; 14: 774)

"Transcriptome dysregulation by anthrax lethal toxin plays a key role in induction of human endothelial cell cytotoxicity."

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13-6800 was used in western blot to study how Bacillus anthracis lethal toxin promotes caspase-3 activation and the formation of thick actin cables in human endothelial cells.

**Cell reports (Mar 2020; 30: 3411)**

"Transferrin Receptor Is a Specific Ferroptosis Marker."

Author(s): Feng H, Schorpp K, Jin J, Yozwiak CE, Stokes ME, Bender HG, Csuka JM, Upadhyayula PS, Canoll P, Buche J, Hadian K, Stockwell BR

PubMed Article URL: http://dx.doi.org/10.1038/s41598-017-17804-1

13-6800 was used in Flow cytometry/Cell sorting to find that anti-TfR1 and anti-malondialdehyde adduct antibodies are effective at staining ferroptotic tumor cells in multiple cell culture and tissue contexts.

**Human / 1:250**

Cell reports (Mar 2020; 30: 3411)

"Transferrin Receptor Is a Specific Ferroptosis Marker."


PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2020.02.049

13-6800 was used in Western Blotting to show that Wnt signaling coreceptor LR6P folding is promoted by lysine ubiquitination, retaining it in the ER while avoiding degradation.

136890 was used in western blot to determine the in vivo effects of pentobarbital on brain plasma membranes and lipid rafts

Biochimica et biophysica acta (Nov 2016; 1858: 2603)

"Pentobarbital modifies the lipid raft-protein interaction: A first clue about the anesthetic mechanism on NMDA and GABA<sub>A</sub>-sub-A receptors."

Author(s): Sierra-Valdez FJ, Ruiz-Suárez JC, Delint-Ramirez I

PubMed Article URL: http://dx.doi.org/10.1016/j.bbamem.2016.07.011

13-6800 was used in Western Blotting to show that intraperitoneal LPS injection is not associated with pulmonary hepcidin induction, despite high levels of inflammatory cytokines.

Frontiers in physiology (Sep 2020; 8:)

"Pulmonary Iron Homeostasis in Hepcidin Knockout Mice."

Author(s): Deschemin JC, Mathieu JRR, Zumerle S, Peyssonnaux C, Vaulont S

PubMed Article URL: http://dx.doi.org/10.3389/fphys.2017.00804

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Not Applicable / 1:2000

Free radical biology & medicine (Aug 2016; 97: 292)

"Alpha-synuclein modulates retinal iron homeostasis by facilitating the uptake of transferrin-bound iron: Implications for visual manifestations of Parkinson’s disease."

Author(s): Bakal S, Tripathi AK, Singh N

PubMed Article URL: http://dx.doi.org/10.1016/j.freeradbiomed.2016.06.025

13-6800 was used in western blot to compare the expression of genes involved in the regulation of iron metabolism in cirrhotic and control human livers

Not Applicable / 1:500

Laboratory investigation; a journal of technical methods and pathology (Dec 2008; 88: 1349)

"Altered expression of iron regulatory genes in cirrhotic human livers: clues to the cause of hemosiderosis?"

Author(s): Bergmann OM, Mathews MM, Broadhurst KA, Weydert JA, Wilkinson N, Howe JR, Han O, Schmidt WN, Brown KE

PubMed Article URL: http://dx.doi.org/10.1038/labinvest.2008.95

13-6800 was used in Western Blotting to investigate the functional role of RNA localization at cellular protrusions of migrating mesenchymal cells, using as a model the RAB13 RNA, which encodes a GTPase important for vesicle-mediated membrane trafficking.

Human / Not Cited

The EMBO journal (Nov 2020; 39:)

"RNA localization and co-translational interactions control RAB13 GTPase function and cell migration."

Author(s): Moissoglou K, Stueland M, Gasparski AN, Wang T, Jenkins LM, Hastings ML, Mili S

PubMed Article URL: http://dx.doi.org/10.15252/embj.2020104958

13-6800 was used in Western Blotting to examine mPRs’ role in mediating the effects of NAS on the efficacy of GABAergic inhibition.

Mouse / 1:1,000

The Journal of biological chemistry (Aug 2019; 294: 12220)

"Metabotropic, but not allosteric, effects of neurosteroids on GABAergic inhibition depend on the phosphorylation of GABA<sub>A</sub>-sub-A receptors."

Author(s): Parakala ML, Zhang Y, Modgil A, Chadchankar J, Vien TN, Ackley MA, Doherty JJ, Davies PA, Moss SJ

PubMed Article URL: http://dx.doi.org/10.1074/jbc.RA119.008875

13-6800 was used in Western Blotting to show dynamic sequestering of dopamine transporters into cholesterol-dependent nanodomains in dopaminergic neurons.

Mouse / Not Cited

Nature communications (Sep 2017; 8:)

"Super-resolution microscopy reveals functional organization of dopamine transporters into cholesterol and neuronal activity-dependent nanodomains."


PubMed Article URL: http://dx.doi.org/10.1038/s41467-017-00790-3

13-6800 was used in Western Blotting to study cocaine-induced behaviors in transgenic mice over-expressing S421A-D1R in the forebrain.

Mouse / Not Cited

Neuroscience bulletin (Dec 2014; 30: 1025)

"Disruption of dopamine D1 receptor phosphorylation at serine 421 attenuates cocaine-induced behaviors in mice."


PubMed Article URL: http://dx.doi.org/10.1007/s12264-014-1473-9
13-6800 was used in western blot to develop an automated high-content imaging assays to quantify the internalization of Y. pestis and study the activation of NF-kappaB signaling

**Not Applicable / Not Cited**

PLoS one (Jul 2013; 8: )
"Integrating high-content imaging and chemical genetics to probe host cellular pathways critical for Yersinia pestis infection."

PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0055167

**Mouse / Not Cited**

13-6800 was used in Western Blotting to show that elimination of Htt expression in the adult mouse results in behavioral deficits, progressive neuropathological changes including bilateral thalamic calcification, and altered brain iron homeostasis.

**Not Applicable / 1:500**

Histology and cell biology (Sep 2007; 128: 195)
"Immunocytochemical and biochemical detection of EMMPRIN in the rat tooth germ: differentiation-dependent coexpression with MMPs and co-localization with caveolin-1 in membrane rafts of dental epithelial cells."

Author(s):Schwab W,Harada H,Gotz W,Nowicki M,Witt M,Kasper M,Barth K
PubMed Article URL:http://dx.doi.org/10.1007/s00418-007-0315-7

13-6800 was used in western blot to test if the extracellular matrix metalloproteinase inducer takes part in the induction of proteolytic enzymes in the rat tooth germ

**Human / Not Cited**

Clinical chemistry (Sep 1999; 45: 1614)
"Development, characterization, and use of monoclonal antibodies made to antigens expressed on the surface of fetal nucleated red blood cells."


13-6800 was used in Immunocytochemistry to identify a role for retromer in the glucose transporter 4 storage vesicle formation and adipogenesis.

**Mouse / 1:1000**

The Journal of biological chemistry (May 2018; 293: 7853)
"Inflammation-induced iron transport and metabolism by brain microglia."

Author(s):McCarthy RC,Sosa JC,Gardeck AM,Baez AS,Lee CH,Wessling-Rsneck M
PubMed Article URL:http://dx.doi.org/10.1074/jbc.RA118.001949

13-6800 was used in western blot to use free-flow electrophoresis for the charge-based separation of detergent-resistant membranes

**Biochemical and physical research communications (Jul 2004; 319: 826)**
"Charge-based separation of detergent-resistant membranes of mouse splenic B cells."

Author(s):Katsumata O,Kimura T,Nagatsu Y,Hirabayashi Y,Sugiya H,Furuyama S,Yanagishita M,Hara-Yokoyama M
PubMed Article URL:http://dx.doi.org/10.1016/j.bbrc.2004.05.058

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**Mouse / Not Cited**

The Journal of biological chemistry (Sep 2019; 294: 13292)
"Hepatic heparan sulfate is a master regulator of hepcidin expression and iron homeostasis in human hepatocytes and mice."

PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0055167
13-6800 was used in Western Blotting to identify NHE9 as a novel regulator of iron entry into the brain across the blood-brain barrier.

**Human / 1:100**

The Journal of biological chemistry (Mar 2017; 292: 4293)
"Na<sup>+</sup>-H<sup>+</sup> Exchanger 9 Regulates Iron Mobilization at the Blood-Brain Barrier in Response to Iron Starvation."
Author(s):Beydoun R,Hamood MA,Gomez Zubieta DM,Kondapalli KC
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M116.769240

**Human / Not Cited**

Journal of virology (Jan 2012; 86: 757)
"Transmembrane domain determinants of CD4 Downregulation by HIV-1 Vpu."
Author(s):Magadán JG,Bonifacino JS
PubMed Article URL:http://dx.doi.org/10.1128/JVI.05933-11

**Bovine / 1:1,000**

13-6800 was used in Western Blotting to study RNA contamination in foetal bovine serum and serum-free media.

**Human / 1:5,000**

13-6800 was used in Western Blotting to identify EBV-encoded miR-BART16 as a novel viral immune-evasion factor that interferes with the type I interferon signalling pathway.

**Mouse / Not Cited**

Autophagy (Jun 2020; 16: 1092)
"SQSTM1/p62 and PPARGC1A/PGC-1alpha at the interface of autophagy and vascular senescence."
Author(s):Salazar G,Cullen A,Huang J,Zhao Y,Serino A,Hienski L,Patrushev N,Fouozandeh F,Hwang HS
PubMed Article URL:http://dx.doi.org/10.1080/15548627.2019.1659612

**Mouse / 1:1,000**

13-6800 was used in Western Blot to study the role of small integral membrane protein of the lysosome/late endosome in the physiological regulation of protein trafficking.

**Human / Not Cited**

The Journal of biological chemistry (May 2018; 293: 8077)
"Sorting nexin 9 (SNX9) regulates levels of the transmembrane ADAM9 at the cell surface."
Author(s):Mygind KJ,Störiko T,Freiberg ML,Samsøe-Petersen J,Schwarz J,Andersen OM,Kveiborg M
PubMed Article URL:http://dx.doi.org/10.1074/jbc.RA117.001077

**Human / Not Cited**

13-6800 was used in Western Blotting to identify mitochondrial pathways as statistically prioritized ontological terms in the 22q11.2 and the Df(16)A proteomes.

**Human / Not Cited**

"Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior."
PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.1983-18.2019


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Experimental cell research (Feb 2007; 313: 834)
"Inefficient targeting to the endoplasmic reticulum by the signal recognition particle elicits selective defects in post-ER membrane trafficking."
Author(s): Lakkaraju AK, Luyet PP, Parone P, Falguières T, Strub K
PubMed Article URL: http://dx.doi.org/10.1016/j.yexcr.2006.12.003

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Neurobiology of disease (Jun 2008; 30: 353)
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Author(s): Pansiaidou L, Bethani I, Michaki V, Krousti K, Rapti G, Ethimiopoulos S
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"Molecular characterization of a trafficking organelle: dissecting the axonal paths of calsyntenin-1 transport vesicles."
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13-6800 was used in Western Blotting to provide evidence that palmitic acid directly activates TLR2 by inducing heterodimerization with TLR1 in an NADPH oxidase-dependent manner.

"Sideroflexin 4 affects Fe-S cluster biogenesis, iron metabolism, mitochondrial respiration and heme biosynthetic enzymes."
Author(s): Paul BT, Tesfay L, Winkler CR, Torti FM, Torti SV
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13-6890 was used in Western Blotting to study sonic hedgehog expression in developing and adult hamster brains

"High expression and anterograde axonal transport of aminoterminal sonic hedgehog in the adult hamster brain."
Author(s): Snodgrass RG, Huang S, Choi IW, Rutledge JC, Hwang DH
PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1300298

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"Effects of epigallocatechin3gallate on iron metabolism in spinal cord motor neurons."
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13-6800 was used in immunocytochemistry and western blot to investigate the consequences of Homer proteins interacting with the amyloid precursor protein

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Human / 1:1000

"Inflammasome-mediated secretion of IL-1 in human monocytes through TLR2 activation; modulation by dietary fatty acids."
Author(s): Snodgrass RG, Huang S, Choi IW, Rutledge JC, Hwang DH
PubMed Article URL: http://dx.doi.org/10.1002/jimmunol.1300298

<table>
<thead>
<tr>
<th>Species</th>
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<th>Method/Condition</th>
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<tr>
<td>Mouse / Not Cited</td>
<td>13-6800</td>
<td>was used in western blot to investigate the convergence of APP and BACE-1 in acidic microdomains via an endocytosis-dependent pathway.</td>
<td>Activity-induced convergence of APP and BACE-1 in acidic microdomains</td>
<td>Neuron (Aug 2013; 79: 447)</td>
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<tr>
<td>Not Applicable / 1:500</td>
<td>13-6800</td>
<td>was used in western blot to investigate the expression, localization, and interactions of the P2X(4)R</td>
<td>The international journal of biochemistry &amp; cell biology (Oct 2008; 40: 2230) Characterization of the molecular interaction between caveolin-1 and the P2X receptors 4 and 7 in E10 mouse lung alveolar epithelial cells.</td>
<td>&quot;Characterization of the molecular interaction between caveolin-1 and the P2X receptors 4 and 7 in E10 mouse lung alveolar epithelial cells.&quot; Author(s): Barth K, Weinhold K, Guenther A, Linge A, Gereke M, Kasper M PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.biocel.2008.03.001">http://dx.doi.org/10.1016/j.biocel.2008.03.001</a></td>
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<tr>
<td>Not Applicable / 1:1000</td>
<td>13-6800</td>
<td>was used in western blot to study the extra-and intracellular distribution of catalytic ferrous iron in ovalbumin-induced peritonitis.</td>
<td>Biochemical and biological research communications (Aug 2016; 476: 600)</td>
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<td>Human / 1 µg/ml</td>
<td>13-6800</td>
<td>was used in immunocytochemistry and western blot to study the modification of major histocompatibility complex class I-related chain A and UL16-binding proteins 1, 2, and 3</td>
<td>The Journal of experimental medicine (Apr 2004; 199: 1005)</td>
<td>&quot;Cell surface organization of stress-inducible proteins ULBP and MICA that stimulate human NK cells and T cells via NKG2D.&quot; Author(s): Eleme K, Taner SB, Onfelt B, Collinson LM, McCann FE, Chalupty NJ, Cosman D, Hopkins C, Magee AL, Davis DM PubMed Article URL: <a href="http://dx.doi.org/10.1084/jem.20032194">http://dx.doi.org/10.1084/jem.20032194</a></td>
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<tr>
<td>Human / Not Cited</td>
<td>13-6890</td>
<td>was used in western blot to unravel the functional relation between mitochondria-shaping proteins and the small GTPase Rab11a</td>
<td>The Journal of biological chemistry (Jul 2007; 18: 2630)</td>
<td>&quot;Depletion of the nuclear protein nucleostemin causes G1 cell cycle arrest via the p53 pathway.&quot; Author(s): Landry MC, Champagne C, Boulanger MC, Jette A, Fuchs M, Dziengelewski C, Lavoie JN PubMed Article URL: <a href="http://dx.doi.org/10.1074/jbc.M113.516351">http://dx.doi.org/10.1074/jbc.M113.516351</a></td>
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<td>13-6800</td>
<td>was used in Western Blot to show that PTP4 is an important protein competent of the polar tube involved in the mechanism of host cell infection utilised by Microsporidia.</td>
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Chemico-biological interactions (Jun 2014; 216: 1)
"The lipid raft-bound alkaline phosphatase activity increases and the level of transcripts remains unaffected in liver of merosin-deficient LAMA2dy mouse."  
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Author(s): Kamemura K, Ito A, Shimazu T, Matsuyama A, Maeda S, Yao TP, Horinouchi S, Khochbin S, Yoshida M  
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Author(s): Cianciola NL, Chung S, Manor D, Carlin CR  
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Nature (Dec 2005; 438: 873)
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"Hepatic hepcidin/intestinal HIF-2 axis maintains iron absorption during iron deficiency and overload."  
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"Induction of HIV transcription by Nef involves Lck activation and protein kinase C theta raft recruitment leading to activation of ERK1/2 but not NF kappa B."  
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13-6800 was used in Western Blotting to demonstrate that phosphorylation regulates atypical chemokine receptor function without -arrestin involvement in chemokine sequestration and non-canonical signaling.

Not Applicable / Not Cited

**Cell reports**

"ACKR3 Regulation of Neuronal Migration Requires ACKR3 Phosphorylation, but Not -Arrestin."

Author(s): Saaber F, Schütz D, Miess E, Abe P, Desikan S, Ashok Kumar P, Balk S, Huang K, Beaulieu JM, Schulz S, Stumm R

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Autophagy (Feb 2016; 11: 769)

"Critical role of CAUT1/caveolin-1 in cell stress responses in human breast cancer cells via modulation of lysosomal function and autophagy."

Author(s): Shi Y, Tan SH, Ng S, Zhou J, Yang ND, Koo GB, McMahon KA, Parton RG, Hill MM, Del Pozo MA, Kim YS, Shen HM

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13-6800 was used in western blot to characterize the modulation of lysosomal function and autophagy due to CAV1/caveolin-1 in human breast cancer cells after cell stress response

**Not Applicable / 1:500**

Virology (Feb 2008; 371: 439)

"Receptor use by the Whitewater Arroyo virus glycoprotein."

Author(s): Reignier T, Oldenburg J, Flanagan ML, Hamilton GA, Martin VK, Cannon PM

PubMed Article URL: http://dx.doi.org/10.1016/j.virology.2007.10.004

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**Human / Not Cited**


"Loss of the von Hippel Lindau tumor suppressor disrupts iron homeostasis in renal carcinoma cells."

Author(s): Alberghini A, Recalcati S, Tacchini L, Santambrogio P, Campanella A, Cairo G

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13-6800 was used in western blot to propose that the coupling of zinc transporter 3 and Vglut1 transport mechanisms regulates neurotransmitter content in secretory vesicles

**Human / 1:1,000**

Journal of cell science (May 2005; 118: 1911)

"Vglut1 and ZnT3 co-targeting mechanisms regulate vesicular zinc stores in PC12 cells."

Author(s): Salazar G, Craig B, Love R, Kalman D, Faundez V

PubMed Article URL: http://dx.doi.org/10.1242/jcs.02319

13-6800 was used in Western Blotting to evaluate the efficiency of transcytosis in vitro and intracellular trafficking in endosomal compartments, in an in vitro blood-brain barrier model for affinity variants of OX26.

**Human**

eLife (Apr 2018; 7: )

"IRS-1 acts as an endocytic regulator of IGF-I receptor to facilitate sustained IGF signaling."


PubMed Article URL: http://dx.doi.org/10.7554/eLife.32893

136800 was used in immunocytochemistry and western blot to demonstrate that ATP9A has an important role in recycling from endosomes to the plasma membrane

**Human**

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"The phospholipid flippase ATP9A is required for the recycling pathway from the endosomes to the plasma membrane."

Author(s): Tanaka Y, Ono N, Shima T, Tanaka G, Katoh Y, Nakayama K, Takatsu H, Shin HW

PubMed Article URL: http://dx.doi.org/10.1091/mcb.E16-08-0586

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**Not Applicable / Not Cited**

Archives of histology and cytology (Dec 2007; 70: 303)

"Specific depletion of GGA2 causes cathepsin D missorting in HeLa cells."


PubMed Article URL: http://dx.doi.org/10.1679/aohc.70.303

**Human**

Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

thermofisher.com/contactus
13-6800 was used in Western Blotting to study the importance of AP-1 isoforms in Nef-mediated depletion of surface HLA-A molecules in T cells.

**Human / Not Cited**

Journal of virology (Mar 2020; 94: )

"Two Functional Variants of AP-1 Complexes Composed of either 2 or 1 Subunits Are Independently Required for Major Histocompatibility Complex Class I Downregulation by HIV-1 Nef."

Author(s): Tavares LA de Carvalho JV, Costa CS, Silveira RM, de Carvalho AN, Donadi EA, daSilva LLP

PubMed Article URL: http://dx.doi.org/10.1128/JVI.02039-19

13-6890 was used in Western Blotting to identify genes that dictate the ability of the dopamine transporter to sustain normal levels of dopamine clearance.

**Human / 1:1,000**

The Journal of neuroscience : the official journal of the Society for Neuroscience (Sep 2017; 37: 9288)

"The Atypical MAP Kinase SWIP-13/ERK5 Regulates Dopamine Transporters through a Rho-Dependent Mechanism."


PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.1582-17.2017

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**Human / 1:500**

Thyroid : official journal of the American Thyroid Association (Mar 2011; 21: 267)

"Aberrant expression of TIR1/CD71 in thyroid carcinomas identifies a novel potential diagnostic marker and therapeutic target."


PubMed Article URL: http://dx.doi.org/10.1089/thy.2010.0173

13-6890 was used in Western Blot to show a single nucleotide polymorphism of human serotonin 5-HT2C receptor causing the Cys23Ser mutation results in a distinct pharmacological and subcellular localization profile of the receptor versus the wild-type.

**Hamster / 1:10000**

Scientific reports (Nov 2019: 9: )

"Serotonin 5-HT<sub>2C</sub> receptor Cys23Ser Single Nucleotide Polymorphism Associates with Receptor Function and Localization In Vitro."

Author(s): Land MA, Chapman HL, Davis-Reyes BD, Felsing DE, Allen JA, Moeller FG, Elferink LA, Cunningham KA, Anastasio NC

PubMed Article URL: http://dx.doi.org/10.1383/s41598-019-53124-2

13-6800 was used in Western Blotting to elucidate the mechanisms underlying the pathogenesis of vincristine-induced neuropathic pain.

**Rat / 1:1,000**

Oncology letters (Apr 2018; 15: 5013)

"Sensitization of TRPV1 receptors by TNF-orchestrates the development of vincristine-induced pain."


PubMed Article URL: http://dx.doi.org/10.3892/ol.2018.7986

13-6800 was used in Western Blotting to determine the role of plasmalogens in neurotransmission.

**Mouse / 1:2,000**

Human molecular genetics (Jun 2019; 28: 2046)

"Disturbed neurotransmitter homeostasis in ether lipid deficiency."


PubMed Article URL: http://dx.doi.org/10.1093/hmg/ddz040

13-6800 was used in Western Blotting to conclude that the brain-specific dynamin GTPase neulaxatin exhibits stress-responsive localization to mitochondria and is required for proper mitochondrial morphology.

**Mouse / 1:500**

The Journal of biological chemistry (Jul 2019; 294: 11498)

"Neulaxatin, a dynamin family GTPase, translocates to mitochondria upon neuronal stress and alters mitochondrial morphology cb</in vivo</cb>."

Author(s): Lomash RM, Petralia RS, Holtzclaw LA, Tsuda MC, Wang YX, Badger JD, Cameron HA, Youle RJ, Roche KW

PubMed Article URL: http://dx.doi.org/10.1074/jbc.RA118.007245

13-6800 was used in Western Blotting to reveal that ECT2 has a novel role in mesenchymal-amoeboid transition in human astrocytoma cells.

**Human / 1:2000**

The American journal of pathology (Aug 2012; 181: 662)

"ECT2 and RASAL2 mediate mesenchymal-amoeboid transition in human astrocytoma cells.”

Author(s): Weeks A, Okolowsky N, Golbourn B, Ivanchuk S, Smith C, Rutka JT


13-6890 was used in western blot to characterize the effects of iron chelators on cell cycle arrest.

**Human / Not Cited**

Carcinogenesis (Jun 2003; 24: 1045)

"Potent iron chelators increase the mRNA levels of the universal cyclin-dependent kinase inhibitor p21(CIP1/WAF1), but paradoxically inhibit its translation: a potential mechanism of cell cycle dysregulation."

Author(s): Le NT, Richardson DR

PubMed Article URL: http://dx.doi.org/10.1093/carcin/bgg042

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**Human / Not Cited**

Scientific reports (Feb 2019; 9: )

"miR-148a regulates expression of the transferrin receptor 1 in hepatocellular carcinoma."

Author(s): Babu KR, Muckenhalter MU

PubMed Article URL: http://dx.doi.org/10.1038/s41598-018-35947-7

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**Mouse / Not Cited**

Blood advances (Aug 2020; 4: 3853)

"Neutrophils from hereditary hemochromatosis patients are protected from iron excess and are primed."


PubMed Article URL: http://dx.doi.org/10.1182/bloodadvances.202002198

13-6800 was used in Western Blotting to demonstrate that treatment of K562 cells with the phorbol ester TPA induces the down-modulation of various surface antigens

**Not Applicable / Not Cited**

Journal of cellular biochemistry (Oct 2007; 102: 650)

"The transferrin receptor and the tetraspanin web molecules CD9, CD81, and CD9P-1 are differentially sorted into exosomes after TPA treatment of K562 cells."


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**Mouse / 1:500**

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Author(s): Burek M, Burmester S, Salvador E, Möller-Ehrlich K, Schneider R, Roewer N, Nagai M, Förster CY

PubMed Article URL: http://dx.doi.org/10.3389/fphys.2020.569881

13-6800 was used in Western Blotting to demonstrate that a moderate decrease in glucose-6-phosphate dehydrogenase activity is associated with pulmonary arterial hypertension.

**Human / Not Cited**

PloS one (Feb 2019; 13: )

"New cases of Glucose-6-Phosphate Dehydrogenase deficiency in Pulmonary Arterial Hypertension."

Author(s): Kurdyukov S, Eccles CA, Desai AA, Gonzalez-Garay M, Yuan JX, Garcia JGN, Rafikova O, Rafikov R

PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0203493

13-6800 was used in Western Blotting to show that in hepatocellular carcinoma, transferrin receptor 1 expression is regulated by miR-148a.

**Human / 1:500**

Brain : a journal of neurology (Dec 2019; 142: 3852)

"A causal role for TRESK loss of function in migraine mechanisms."


PubMed Article URL: http://dx.doi.org/10.1093/brain/aww234

13-6800 was used in Western Blotting to identify the two-pore potassium channel TREK contributes to migraine pathogenesis.

**Human / Not Cited**

Molecular and cellular biology (Apr 2012; 32: 1408)

"Activation of myeloid cell-specific adhesion class G protein-coupled receptor EMR2 via ligation-induced translocation and interaction of receptor subunits in lipid raft microdomains."

Author(s): Huang YS, Chiang NY, Hu CH, Hsiao CC, Cheng KF, Tsai WP, Yona S, Stacey M, Gordon S, Chang GW, Lin HH

PubMed Article URL: http://dx.doi.org/10.1128/MCB.06557-11

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"Trafficking of cholera toxin-ganglioside GM1 complex into Golgi and induction of toxicity depend on actin cytoskeleton."
Author(s): Badizadegan K, Wheeler HE, Fujinaga Y, Lencer WI
PubMed Article URL: http://dx.doi.org/10.1152/ajpcell.00189.2004

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The American journal of pathology (Sep 2013; 183: 745)
"Molecular and functional alterations in a mouse cardiac model of Friedreich ataxia: activation of the integrated stress response, eIF2 phosphorylation, and the induction of downstream targets."
Author(s): Huang ML, Sivagurunathan S, Ting S, Jansson PJ, Austin CJ, Kelly M, Semsarian C, Zhang D, Richardson DR
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Nature medicine (May 2014; 20: 542)
"Prevention and reversal of severe mitochondrial cardiomyopathy by gene therapy in a mouse model of Friedreich's ataxia."
Author(s): Perdomini M, Bebellia B, Monassier L, Reutenauer L, Messadegq N, Cartier N, Crystal RG, Aubourg P, Puccio H
PubMed Article URL: http://dx.doi.org/10.1038/nm.3510

13-6800 was used in western blot to characterize oligodendroglial SNAREs and their trafficking pathways

Journal of neuroscience research (Jun 2009; 87: 1760)
"Comprehensive analysis of expression, subcellular localization, and cognate pairing of SNARE proteins in oligodendrocytes."
PubMed Article URL: http://dx.doi.org/10.1002/jnr.22020

13-6800 was used in Western Blot to show that chronic iron overload leads to a profound autophagy defect through mTORC1- UVRAG inhibition and provides new mechanistic insight into metabolic syndrome-associated insulin resistance.

EMBO reports (Oct 2019; 20: )
"Iron overload inhibits late stage autophagic flux leading to insulin resistance."
Author(s): Jahng JWS, Alsaadi RM, Palanivel R, Song E, Hipolito VEB, Sung HK, Botelho RJ, Russell RC, Sweeney G
PubMed Article URL: http://dx.doi.org/10.15252/embr.201947911

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Journal of neuroscience research (Aug 2020; 133: )
"Mammalian copper homeostasis requires retromer-dependent recycling of the high-affinity copper transporter 1."
Author(s): Curnock R, Cullen PJ
PubMed Article URL: http://dx.doi.org/10.1242/jcs.249201

13-6800 was used in Western Blotting to demonstrate that TRPM4 blockade could attenuate reperfusion injury in stroke recanalization.

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"TRPM4-specific blocking antibody attenuates reperfusion injury in a rat model of stroke."
Author(s): Chen B, Gao Y, Wei S, Low SW, Ng G, Yu D, Tu TM, Soong TW, Nilius B, Liao P
PubMed Article URL: http://dx.doi.org/10.1007/s00424-019-02326-8

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"High density lipoprotein prevents oxidized low density lipoprotein-induced inhibition of endothelial nitric-oxide synthase localization and activation in caveolae."
Author(s): Uittenbogaard A, Shaul PW, Yu Hana IS, Blair A, Smart EJ
PubMed Article URL: http://dx.doi.org/10.1074/jbc.275.15.11278

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Infection and immunity (Apr 2009; 77: 1708)
"Induction of persistent colitis by a human commensal, enterotoxigenic Bacteroides fragilis, in wild-type C57BL/6 mice."
PubMed Article URL: http://dx.doi.org/10.1128/IAI.00814-08
13-6800 was used in western blot to determine the role of Src family kinases in ligand-stimulated internalization of the platelet-derived growth factor alpha receptor

Not Applicable / 1:2000

Experimental cell research (Dec 2003; 291: 426)
"The role of c-Src in platelet-derived growth factor alpha receptor internalization."
Author(s): Avrov K. Kazlauskas A
PubMed Article URL:http://dx.doi.org/10.1016/j.yexcr.2003.08.001

Human / 1:1000

13-6800 was used in Western Blotting to investigate different EV-depleted FBS prepared by a novel ultrafiltration-based protocol, by conventionally used overnight ultracentrifugation, or commercially available depleted FBS, and compared them with regular FBS.

Journal of extracellular vesicles (Sep 2020; 7: )
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13-6800 was used in Western Blotting to investigate the effect of -Phenethyl isothiocyanate (PEITC) on human osteosarcoma both in vitro and in vivo.

Oxidative medicine and cellular longevity (Jan 2021; 2020: )
"Phenethyl Isothiocyanate Induces Cell Death in Human Osteosarcoma through Altering Iron Metabolism, Disturbing the Redox Balance, and Activating the MAPK Signaling Pathway."
Author(s): Lv H, Zhen C, Liu J, Shang P
PubMed Article URL:http://dx.doi.org/10.1155/2020/5021983

Mouse / Not Cited

13-6800 was used in immunocytochemistry and western blot to study sorting nexin (SNX) family members interactions with beta integrins.

Journal of molecular biology (Sep 2014; 426: 3180)
"Sorting nexin 31 binds multiple integrin cytoplasmic domains and regulates 1 integrin surface levels and stability."
Author(s): Tseng HY, Thorausch N, Ziegler T, Meves A, Fässler R, Böttcher RT
PubMed Article URL:http://dx.doi.org/10.1016/j.jmb.2014.07.003

Non-human primate / Not Cited

13-6800 was used in western blot to identify and study cystolic structures involved in arenavirus replication and transcription.

Journal of virology (Oct 2012; 86: 11301)
"Arenavirus infection induces discrete cystolic structures for RNA replication."
Author(s): Baird NL, York J, Nunberg JH
PubMed Article URL:http://dx.doi.org/10.1128/JVI.01635-12

Human / Not Cited

13-6800 was used in Western Blot to characterise HIV-1 Nef mutants in the context of viral infection.

Virology (Aug 2006; 351: 322)
"Functional characterization of HIV-1 Nef mutants in the context of viral infection."
Author(s): Fackler OT, Moris A, Tibroni N, Giese S, Glass B, Schwartz O, Kräusslich HG
PubMed Article URL:http://dx.doi.org/10.1016/j.virology.2006.03.044

13-6890 was used in Western Blot to propose that impaired endocytosis creates a selective advantage in glioma tumor progression due to prolonged receptor tyrosine kinase signaling from the cell surface.

EBioMedicine (Aug 2019; 46: 32)
"Quantitative proteomics reveals reduction of endocytic machinery components in gliomas."
Author(s): Buser DP, Ritz MF, Moes S, Tostado C, Frank S, Spiess M, Mariani L, Jenö P, Boulay JL, Hutter G
PubMed Article URL:http://dx.doi.org/10.1016/j.ebiom.2019.07.039

13-6800 was used in western blot to investigate the use of PCSK9 as a non-statin cholesterol reducing agent.

European journal of medicinal chemistry (Mar 2015; 92: 890)
"LDL-R promoting activity of peptides derived from human PCSK9 catalytic domain (153-421): design, synthesis and biochemical evaluation."
Author(s): Alghamdi RH, O'Reilly P, Lu C, Gomes J, Lagace TA, Basak A
PubMed Article URL:http://dx.doi.org/10.1016/j.ejmech.2015.01.022

13-6800 was used in Western Blotting to determine the role of Src family kinases in ligand-stimulated internalization of the platelet-derived growth factor alpha receptor

Not Applicable / 1:500

DNA repair (Nov 2006; 5: 1327)
"Iron chelators reduce chromosomal breaks in ataxia-telangiectasia cells."
Author(s): Shackelford RE, Fu Y, Manuszak RP, Brooks TC, Sequiera AP, Wang S, Lowery-Nordberg M, Chen A
PubMed Article URL:http://dx.doi.org/10.1016/j.dnarep.2006.05.041


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13-6800 was used in Western Blot, Immunoprecipitation to demonstrate that the neuronal K+/Cl- cotransporter 2 (KCC2) interacts with the SNARE protein synaptosome-associated protein 23 (SNAP23).

Human / Not Cited

iScience (Feb 2022; 25: )
"SNAP23 regulates KCC2 membrane insertion and activity following mZnR/GPR39 activation in hippocampalneurons."
Author(s):Asral H,Bogdanovic M,Gottesman N,Sekler I,Aizenman E,Hershfinkel M
PubMed Article URL:http://dx.doi.org/10.1016/j.isci.2022.103751

13-6800 was used in Western Blot to provide a solid basis for targeting mitochondria iron metabolism in cisplatin-resistant NSCLC for therapeutic purposes.

Human / Not Cited

Frontiers in oncology (Feb 2022; 11: )
"Deferoxamine Counteracts Cisplatin Resistance in A549 Lung Adenocarcinoma Cells by Increasing Vulnerability to Glutamin Deprivation-Induced Cell Death."
PubMed Article URL:http://dx.doi.org/10.3389/фонc.2021.794735

13-6800 was used in western blot to investigate TGF-beta signaling in glucose-induced cell hypertrophy of fibroblasts and epithelial cells

Not Applicable / Not Cited

"Tonic activation of CXC chemokine receptor 4 in immature granule cells supports neurogenesis in the adult dentate gyrus."
Author(s):Kolodziej A,Schulz S,Guyon A,Wu DF,Priefert M,Odemis V,Höllt V,Stumm R
PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.4721-07.2008

13-6800 was used in Western Blot to elucidate the regulation and function of CXCR4 in the rat postnatal dentate gyrus

Mouse / 1:1,000

Nature communications (Apr 2018; 9: )
"Matriptase-2 deficiency protects from obesity by modulating iron homeostasis."  
PubMed Article URL:http://dx.doi.org/10.1038/s41467-018-03853-1

13-6800 was used in western blots to determine the subcellular localization of GLUT4.

Not Applicable / 1 µg/ml

The Journal of biological chemistry (Dec 1999; 274: 37755)
"Separation and partial characterization of three distinct intracellular GLUT4 compartments in rat adipocytes. Subcellular fractionation without homogenization."  
Author(s):Lee W,Ryu J,Souto RP,Plich PF,Jung CY
PubMed Article URL:http://dx.doi.org/10.1074/jbc.274.53.37755

13-6800 was used in Western Blotting to report that RNF167, a transmembrane endolysosomal ubiquitin ligase, can ubiquitinate Rab7.

Human / 1:500

International journal of molecular sciences (Jul 2022; 23: )
"Membrane Targeting and GTPase Activity of Rab7 Are Required for Its Ubiquitination by RNF167."  
Author(s):Ghilarducci K,Cabana VC,Harake A,Cappadocia L,Lussier MP
PubMed Article URL:http://dx.doi.org/10.3389/jims.2022.103751

13-6800 was used in Western Blot to investigate the effect of dietary iron fortification during pregnancy on alcohol's disruption of fetal homeostasis.

Rat / Not Cited

"Tonic activation of CXC chemokine receptor 4 in immature granule cells supports neurogenesis in the adult dentate gyrus."
Author(s):Kolodziej A,Schulz S,Guyon A,Wu DF,Priefert M,Odemis V,Höllt V,Stumm R
PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.4721-07.2008

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Not Applicable / 1 µg/ml

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Human / 1:500

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Author(s):Ghilarducci K,Cabana VC,Harake A,Cappadocia L,Lussier MP
PubMed Article URL:http://dx.doi.org/10.3389/jims.2022.103751

13-6800 was used in Western Blot to investigate the effect of dietary iron fortification during pregnancy on alcohol's disruption of fetal homeostasis.

Rat / Not Cited

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Author(s):Kolodziej A,Schulz S,Guyon A,Wu DF,Priefert M,Odemis V,Höllt V,Stumm R
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PubMed Article URL:http://dx.doi.org/10.1074/jbc.274.53.37755

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PubMed Article URL:http://dx.doi.org/10.1074/jbc.274.53.37755

13-6800 was used in Western Blotting to report that RNF167, a transmembrane endolysosomal ubiquitin ligase, can ubiquitinate Rab7.
13-6890 was used in Western Blotting to show that the membrane remodelling protein SNX18, previously identified as a positive regulator of autophagy, regulates ATG9A trafficking from recycling endosomes.

EMBO reports (Apr 2018; 19: )
"SNX18 regulates ATG9A trafficking from recycling endosomes by recruiting Dynamin-2."
Author(s):Sørensen K,Munson MJ,Lamb CA,Bjørndal GT,Pankiv S,Carlsson SR,Tooze SA,Simonsen A
PubMed Article URL:http://dx.doi.org/10.15252/embr.201744837

13-6800 was used in Western Blotting to present a mouse model of PKAN with CoA, iron, and dopamine metabolic defects that can be specifically attributed to loss of panthothenate kinase 2 function.

Not Applicable / 1:3000
"4'-Phosphopantetheine corrects CoA, iron, and dopamine metabolic defects in mammalian models of PKAN."
PubMed Article URL:http://dx.doi.org/10.15252/emmm.201910489

13-6800 was used in western blot to identify a role for lipid rafts in the modulation of the shedding of the neurotrophin receptor p75

Not Applicable / Not Cited
"Shedding of the p75NTR neurotrophin receptor is modulated by lipid rafts."
Author(s):Gill C,Cubi R,Aguilera J
PubMed Article URL:http://dx.doi.org/10.1016/j.febslet.2007.03.080

13-6800 was used in Western Blot to provide a roadmap for the identification of phosphatase substrates and reveals unexpected mechanisms governing PP2A dephosphorylation site specificity and tumor suppressor function.

Not Applicable / 1:3000
"Mechanisms of site-specific dephosphorylation and kinase opposition imposed by PP2A regulatory subunits."
PubMed Article URL:http://dx.doi.org/10.15252/embb.2019103695

13-6890 was used in Western Blot to synthesize 20 novel multifunctional agents based on the nicotinoyl hydrazone scaffold, which acts as a metal chelator and a lipophilic delivery vehicle, donating a NAD+ precursor to cells, to target metal dyshomeostasis, oxidative stress, -amyloid (A) aggregation, and a decrease in the NAD+ /NADH ratio.

Not Applicable / Not Cited
"Novel multifunctional iron chelators of the aroyl nicotinoyl hydrazone class that markedly enhance cellular NAD+sup>++<sup>/NADH ratios."n
Author(s):Wu Z,Palanimuthu D,Braidy N,Salkin NH,Egan S,Huang MLH,Richardson DR
PubMed Article URL:http://dx.doi.org/10.1111/bph.14963

13-6800 was used in western blot to elucidate factors that regulate epidermal growth factor receptor recycling.

Human / 1:1000
The EMBO journal (Jul 2020; 39: )
"Mechanisms of site-specific dephosphorylation and kinase opposition imposed by PP2A regulatory subunits."
PubMed Article URL:http://dx.doi.org/10.15252/embb.2019103695

13-6800 was used in Western Blot to study the role of HERC2 in FBXL5 degradation and iron metabolism.

Human / Not Cited
British journal of pharmacology (May 2020; 177: )
"Novel multifunctional iron chelators of the aroyl nicotinoyl hydrazone class that markedly enhance cellular NAD+sup>++<sup>/NADH ratios."n
Author(s):Wu Z,Palanimuthu D,Braidy N,Salkin NH,Egan S,Huang MLH,Richardson DR
PubMed Article URL:http://dx.doi.org/10.1111/bph.14963

13-6800 was used in Western Blot to provide a roadmap for the identification of phosphatase substrates and reveals unexpected mechanisms governing PP2A dephosphorylation site specificity and tumor suppressor function.

Human / 1:2000
Journal of cell science (Dec 2012; 125: 5887)
"RIN1 orchestrates the activation of RABS GTPases and ABL tyrosine kinases to determine the fate of EGFR."
Author(s):Balaji K,Mooser C,Janson CM,Bliss JM,Hojjat H,Colicelli J
PubMed Article URL:http://dx.doi.org/10.1242/jcs.113688

13-6800 was used in Western Blot to study the role of HERC2 in FBXL5 degradation and iron metabolism.

Human / Not Cited
The Journal of biological chemistry (Jun 2014; 289: 16430)
"HERC2 targets the iron regulator FBXL5 for degradation and modulates iron metabolism."
Author(s):Moriishi T,Yamauchi T,Nishiyama M,Nakayama KI
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M113.541490

13-6800 was used in Western Blot to identify the pathways and regulation of CIC-3 trafficking to intracellular sites.

Human / 1:1,000
The Journal of biological chemistry (Sep 2007; 282: 29022)
"The ClC-3 chloride transport protein traffics through the plasma membrane via interaction of an N-terminal dileucine cluster with clathrin."
Author(s):Zhao Z,Li X,Hao J,Winston JH,Weinman SA
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M703506200

The ClC-3 chloride transport protein traffics through the plasma membrane via interaction of an N-terminal dileucine cluster with clathrin.

Human / 1:1,000
"Shedding of the p75NTR neurotrophin receptor is modulated by lipid rafts."
Author(s):Gill C,Cubi R,Aguilera J
PubMed Article URL:http://dx.doi.org/10.1016/j.febslet.2007.03.080


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Human / Not Cited

13-6800 was used in Western Blotting to suggest that RanBPM may constitute a molecular scaffold that contributes to coupling LFA-1 and other integrins with intracellular signaling pathways.

The Journal of biological chemistry (Mar 2004; 279: 13027)

"RanBPM is a phosphoprotein that associates with the plasma membrane and interacts with the integrin LFA-1."


PubMed Article URL: http://dx.doi.org/10.1074/jbc.M313515200

Human / Not Cited

13-6800 was used in western blot to determine the role of ascorbate in transferrin iron uptake.

Biochimica et biophysica acta (Jun 2013; 1833: 1527)

"Transferase iron uptake is stimulated by ascorbate via an intracellular reductive mechanism."

Author(s):Lane DJ,Chikhani S,Richardson V,Richardson DR

PubMed Article URL: http://dx.doi.org/10.1016/j.bbamcr.2013.02.010

Human / 1:1000

13-6800 was used in Western Blotting to examine the essential and selective role of SNX12 in the transport of endocytic and retrograde cargo.

Journal of cell science (Aug 2017; 130: 2707)

"Essential and selective role of SNX12 in transport of endocytic and retrograde cargo."

Author(s):Priya A,Sugatha J,Parveen S,Lacas-Gervais S,Raj P,Gilleron J,Datta S

PubMed Article URL: http://dx.doi.org/10.1242/jcs.2019090

Human / Not Cited

13-6800 was used in Western Blotting to demonstrate that the iron-sensing ubiquitin ligase FBXL5 is a previously unrecognized oncosuppressor in liver carcinogenesis in mice.

The Journal of experimental medicine (Apr 2019; 216: 950)

"Disruption of FBXL5-mediated cellular iron homeostasis promotes liver carcinogenesis."


PubMed Article URL: http://dx.doi.org/10.1084/jem.20180900

Mouse / 1:500

13-6800 was used in Western Blotting to show that the trafficking of autophagy-related protein 9A through the recycling endosomes is an essential step for autophagosome formation.

Journal of cell science (Oct 2016; 129: 3781)

"Atg9A trafficking through the recycling endosomes is required for autophagosome formation."

Author(s):Imai K,Hao F,Fujita N,Tsuji Y,Oe Y,Araki Y,Hamasaki M,Noda T,Yoshimori T

PubMed Article URL: http://dx.doi.org/10.1242/jcs.196196

Mouse / 1:1000

13-6800 was used in western blot to assess the role of the GluN2B subunit during development and in synaptic plasticity.


"GluN2B-Containing NMDA Receptors Regulate AMPA Receptor Traffic through Anchoring of the Synaptic Protease."

Author(s):Ferreira JS,Stott J,Andriulli A,Robertson AM,Vallejo JL

PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.3567-14.2015

Not Applicable / Not Cited

13-6800 was used in western blot to report that US2 and US11 from human cytomegalovirus target unassembled heavy chains for degradation

Molecular immunology (Mar 2006; 43: 1258)

"Human cytomegalovirus-encoded US2 and US11 target unassembled MHC class I heavy chains for degradation."

Author(s):Barel MT,Hassink GC,van Voorden S,Wiertz EJ

PubMed Article URL: http://dx.doi.org/10.1016/j.molimm.2005.07.005

Human / 1:2000

13-6800 was used in western blot to characterize inhibition of neuronal tumor cell proliferation by mitochondrial ferritin

Cellular and molecular life sciences : CMLS (Mar 2015; 72: 983)

"Mitochondrial ferritin, a new target for inhibiting neuronal tumor cell proliferation."
13-6890 was used in western blot to study the behavior of the HIV-1 Vpu alleles in the plasma of elite controller patients

PloS one (Feb 2016; 10: )
"Modest attenuation of HIV-1 Vpu alleles derived from elite controller plasma."
PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0120434

13-6800 was used in western blot to study the effect of physiological doses of epidermal growth factor on the compartmentalization and activation of its receptor.

Human / Not Cited
Endocrinology (Jun 2007; 148: 2944)
"Compartmentalization of signaling-competent epidermal growth factor receptors in endosomes."
Author(s): Balbis A, Parmar A, Wang Y, Baquiran G, Posner BI
PubMed Article URL:http://dx.doi.org/10.1210/en.2006-1674

13-6890 was used in western blot to identify proviral and antiviral host factors in SARS viral replication

Human / Not Cited
Journal of virology (Aug 2015; 89: 8318)
"A Kinome-Wide Small Interfering RNA Screen Identifies Proviral and Antiviral Host Factors in Severe Acute Respiratory Syndrome Coronavirus Replication, Including Double-Stranded RNA-Activated Protein Kinase and Early Secretory Pathway Proteins."
Author(s): de Wilde AH,Wannee KF,Schoite FE,Goeman JJ,Ten Dijke P,Snjider EJ,Kikkert M,van Hemert MJ
PubMed Article URL:http://dx.doi.org/10.1128/JVI.01029-15

13-6800 was used in western blot to identify tumor suppressor genes involved in medulloblastoma pathogenesis

Not Applicable / Not Cited
Metabolic brain disease (Aug 2016; 31: 951)
"Loss of NCB5OR in the cerebellum disturbs iron pathways, potentiates behavioral abnormalities, and exacerbates harmaline-induced tremor in mice."
Author(s): Stroth MA,Winter MK,Swerdlow RH,McCarson KE,Zhu H
PubMed Article URL:http://dx.101077/1101-016-9834-x

13-6800 was used in western blot to identify GSK-J4, a histone demethylase inhibitor with the ability to cross blood brain barrier, as a potent iron suppressor.

Not Applicable / Not Cited
Cancer research (Dec 2008; 68: 9945)
"An epigenetic genome-wide screen identifies SPINT2 as a novel tumor suppressor gene in pediatric medulloblastoma."
Author(s): Kongkham PN,Northcott PA,Ra YS,Nakahara Y,Mainprize TG,Croul SE,Smith CA,Taylor MD,Rutka JT
PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-08-2169

13-6800 was used in Western Blot to determine how and in which subcellular compartment Nef triggers signalling.

Human / Not Cited
Journal of virology (Apr 2004; 78: 4085)
"Human immunodeficiency virus type 1 Nef activates p21-activated kinase via recruitment into lipid rafts."
Author(s): Krautkrämer E,Giese SI,Gasteier JE,Muranyi W,Fackler OT
PubMed Article URL:http://dx.doi.org/10.1128/jvi.78.8.4085-4097.2004

13-6800 was used in western blot to study the luminal/abluminal localization of a number of blood-brain barrier transporters expressed by endothelial cells

Not Applicable / Not Cited
Cell death & disease (Oct 2020; 11: )
"Therapeutic effect of a histone demethylase inhibitor in Parkinson's disease."
Author(s): Mu MD,Qian ZM,Yang SX,Rong KL,Yung WH,Ke Y
PubMed Article URL:http://dx.doi.org/10.1128/jvi.01029-15

13-6800 was used in western blot to study the physiological effects of physiological doses of epidermal growth factor on the compartmentalization and activation of its receptor.

Rat / Not Cited
"Subcellular localization of transporters along the rat blood-brain barrier and blood-cerebral-spinal fluid barrier by in vivo biotinylation."
Author(s): Roberts LM,Black DS,Raman C,Woodford K,Zhou M,Haggerty JE,Yan AT,Cwirla SE,Grindstaff KK
PubMed Article URL:http://dx.doi.org/10.1016/j.neuroscience.2008.06.015


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13-6800 was used in Western Blotting to investigate whether genes involved in endosomal protein sorting play an important role in regulating amyloid precursor protein processing.

**Human / Not Cited**

Cellular and molecular life sciences : CMLS (Jul 2018; 75: 2613)

"Analysis of novel endosome-to-Golgi retrieval genes reveals a role for PLD3 in regulating endosomal protein sorting and amyloid precursor protein processing."

Author(s):Mukadam AS,Breuys SY,Seaman MJN

PubMed Article URL:http://dx.doi.org/10.1007/s00018-018-2752-9

13-6800 was used in western blot to test if modulation of total cell cholesterol influences oxytocin receptors localization and signaling.

**Not Applicable / Not Cited**

American journal of physiology. Regulatory, integrative and comparative physiology (Oct 2006; 291: R861)

"Effects of cholesterol manipulation on the signaling of the human oxytocin receptor."

Author(s):Reversi A,Rimoldi V,Brambilla S,Chini B

PubMed Article URL:http://dx.doi.org/10.1152/ajpregu.00333.2006

13-6800 was used in Western Blotting to show that the NEDD4 family HECT E3 ubiquitin ligase WW2 and a tumor-suppressing transmembrane protein of unknown biochemical function, TMEM127, are required for SteD-dependent ubiquitination of mHClII.

**Human / Not Cited**

13-6800 was used in Western Blotting to examine the time-dependent consequences of loss of ABCB7.

**Mouse / 1:1,000**

Haematologica (Sep 2019; 104: 1756)

"Dimeric ferrochelatase bridges ABCB7 and ABCB10 homodimers in an architecturally defined molecular complex required for heme biosynthesis."

Author(s):Maio N,Kim KS,Holmes-Hampton G,Singh A,Roulatt T

PubMed Article URL:http://dx.doi.org/10.3324/haematol.2018.214320

13-6800 was used in Western Blotting to examine the role of CD81 in regulating hepcidin expression differently from the BMP and ERK1/2 signalling pathways.

**Human / Not Cited**

13-6800 was used in Western Blotting to investigate the role of LMTK1 in spine formation.

**Mouse / 1:1000**


"The LMTK1-TBC1D9B-Rab11A Cascade Regulates Dendritic Spine Formation via Endosome Trafficking."


PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.3209-18.2019

13-6800 was used in western blot to test if ubiquitination regulates the internalization and degradation of bile salt export pump and multidrug resistance-associated protein 2.

**Human / Not Cited**

13-6800 was used in Western Blotting to investigate the role of LMTK1 in spine formation.

**Mouse / 1:1000**

Molecular pharmacology (Mar 2014; 85: 482)

"Differential roles of ubiquitination in the degradation mechanism of cell surface-resident bile salt export pump and multidrug resistance-associated protein 2."

Author(s):Aida K,Hayashi H,Inamura K,Mizuno T,Sugiyama Y

PubMed Article URL:http://dx.doi.org/10.1124/mol.113.091090

13-6800 was used in Western Blotting to investigate the role of LMTK1 in spine formation.

**Human / Not Cited**

13-6800 was used in Western Blotting to test if RNF114 modulates RIG-I/MDA5 signaling.

**Human / Not Cited**

Human molecular genetics (Aug 2011; 20: 3129)

"Functional analysis of the RNF114 psoriasis susceptibility gene implicates innate immune responses to double-stranded RNA in disease pathogenesis."

Author(s):Bijlkerkmakers MJ,Baanegentki SK,Barker JN,Tremblath RC,Capon F

PubMed Article URL:http://dx.doi.org/10.1093/hmg/ddr215
Non-human primate / Not Cited
Scientific reports (Apr 2020; 10: )
"Up-regulation of voltage-gated sodium channels by peptides mimicking S4-S5 linkers reveals a variation of the ligand-receptor mechanism."
Author(s): Malak OA, Abderemane-Ali F, Wei Y, Coyan FC, Pontus G, Shaya D, Marionneau C, Loussouarn G
PubMed Article URL: http://dx.doi.org/10.1101/sigmmr.2018.62615-6

Not Applicable / Not Cited
The Journal of investigative dermatology (Oct 2007; 127: 400)
"Tumor-derived fibronectin is involved in melanoma cell invasion and regulated by V600E B-Raf signaling pathway."
PubMed Article URL: http://dx.doi.org/10.1038/sj.jid.5700524

Not Applicable / Not Cited
The Journal of biological chemistry (Oct 2008; 283: 28497)
"The single subunit transmembrane E3 ligase gene related to anergy in lymphocytes (GRAIL) captures and then ubiquitinates transmembrane proteins across the cell membrane."
Author(s): Lineberry N, Su L, Soares L, Faithman CG
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M805092200

Not Applicable / Not Cited
International journal of molecular sciences (Sep 2020; 21:)
"Heme Oxygenase-1 Supports Mitochondrial Energy Production and Electron Transport Chain Activity in Cultured Lung Epithelial Cells."
Author(s): Carr JF, Garcia D, Scaffa A, Peterson AL, Ghio AJ, Denney PA
PubMed Article URL: http://dx.doi.org/10.3390/ijms21186941

Non-human primate / Not Cited
Molecular and cellular biology (Jan 2006; 26: 100)
"Distinct utilization of effectors and biological outcomes resulting from site-specific Ras activation: Ras functions in lipid rafts and Golgi complex are dispensable for proliferation and transformation."
Author(s): Matallanas D, Sanz-Moreno V, Arozarena I, Calvo F, Agudo-Ibáñez L, Santos E, Berciano MT, Crespo P

Human / Not Cited
Thermo Fisher Scientific
Rockford, IL 61105 USA
thermofisher.com/contactus
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<td>Not Applicable / 1:500</td>
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13-6800 was used in Western Blotting to illuminate the role of FANCA in GSIS and its protein interactions regulated by glucose stimulation that may explain the prevalence of cell-specific endocrinopathies in FA patients.

Human / 1:1000

*PloS one* (Mar 2020; 14;)

“Delineating the role of FANCA in glucose-stimulated insulin secretion in cells through its protein interactome.”


PubMed Article URL: [http://dx.doi.org/10.1371/journal.pone.0220568](http://dx.doi.org/10.1371/journal.pone.0220568)

Not Applicable / 1:1000

*Journal of cell science* (Jun 2016; 129: 2224)

“SEPT8 modulates amyloidogenic processing of APP by affecting the sorting and accumulation of BACE1.”


PubMed Article URL: [http://dx.doi.org/10.1242/jcs.185215](http://dx.doi.org/10.1242/jcs.185215)

13-6800 was used in Western Blotting to understand mechanisms driving cognitive improvements following nuclear receptor activation.

** Rat / Not Cited **

Life science alliance (Apr 2019; 2;)

“Sex-regulated gene dosage effect of PPAR on synaptic plasticity.”


PubMed Article URL: [http://dx.doi.org/10.26508/lsa.201800262](http://dx.doi.org/10.26508/lsa.201800262)

13-6890 was used in Western Blot to conclude that alcohol induces placental insufficiency and is associated with a pro-inflammatory cytokine profile exacerbated by maternal ID and mitigated by maternal IF.

** Rat / 1:2000 **

Alcohol (Fayetteville, N.Y.) (May 2020; 84: 57)

“Maternal iron nutrition modulates placental development in a rat model of fetal alcohol spectrum disorder.”

Author(s): Kwan STC, Kezer CA, Helfrich KK, Saini N, Huebner SM, Flenkte GR, Kling PJ, Smith SM

PubMed Article URL: [http://dx.doi.org/10.1016/j.alcohol.2019.11.003](http://dx.doi.org/10.1016/j.alcohol.2019.11.003)

13-6800 was used in western blot to study the recruitment of MMP-9 to cell surface and its effect on fibroblast differentiation.

** Human / 1:1000 **

*The Journal of biological chemistry* (May 2015; 290: 13763)

“Recruitment of Matrix Metalloproteinase-9 (MMP-9) to the Fibroblast Cell Surface by Lysyl Hydroxylase 3 (LH3) Triggers Transforming Growth Factor- (TGF-) Activation and Fibroblast Differentiation.”

Author(s): Dayer C, Stamenkovic I

PubMed Article URL: [http://dx.doi.org/10.1074/jbc.M114.622274](http://dx.doi.org/10.1074/jbc.M114.622274)

13-6800 was used in Western Blotting to show that disruption of the Golgi structure by GRASP depletion resulted in reduced cell adhesion and migration due to decreased integrin protein synthesis.

** Human / Not Cited **

Molecular biology of the cell (Mar 2019; 30: 766)

“GRASP depletion-mediated Golgi destruction decreases cell adhesion and migration via the reduction of 51 integrin.”

Author(s): Ahat E, Xiang Y, Zhang X, Bekier ME, Wang Y

PubMed Article URL: [http://dx.doi.org/10.1091/mbc.E18-07-0462](http://dx.doi.org/10.1091/mbc.E18-07-0462)

13-6800 was used in Western Blotting to assess the role of ceruloplasmin in permanent middle cerebral artery occlusion, comparing wildtype and ceruloplasmin null mice.

** Mouse / 1:1,000 **

*Frontiers in neuroscience* (Sep 2020; 12:)

“Ceruloplasmin Plays a Neuroprotective Role in Cerebral Ischemia.”

Author(s): Ryan F, Zarruk JG, Lößlein L, David S

PubMed Article URL: [http://dx.doi.org/10.3389/fnins.2018.00988](http://dx.doi.org/10.3389/fnins.2018.00988)

13-6800 was used in western blot to elucidate the mechanisms by which cholesterol regulates LRP-1 levels and function at the plasma membrane.

** Human / 1 µg/ml **


"Cell cholesterol modulates metalloproteinase-dependent shedding of low-density lipoprotein receptor-related protein-1 (LRP-1) and clearance function.”


PubMed Article URL: [http://dx.doi.org/10.1096/ fj.10-169508](http://dx.doi.org/10.1096/ fj.10-169508)
13-6800 was used in Western Blotting to study the characteristics of rafts domains in the micropilae/microvillar protrusions of alveolar epithelial type I cells, which contain T1alpha.

Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology (Feb 2010; 25: 103)

"T1alpha/podoplanin shows raft-associated distribution in mouse lung alveolar epithelial E10 cells."

Author(s):Barth K,Bläsche R,Kasper M

PubMed Article URL:http://dx.doi.org/10.1159/000272065

13-6800 was used in Western Blotting to uncover a major role for FBXL5 in ensuring an appropriate supply of iron to cells.

Mouse / Not Cited

Cell metabolism (Sep 2011; 14: 339)

"The FBXL5-IRP2 axis is integral to control of iron metabolism in vivo."

Author(s):Moroshi T,Nishiyama M,Takeda Y,Iwai K,Nakayama KI


13-6800 was used in Western Blotting to demonstrate that the E3 ubiquitin ligase, IDOL, determines synaptic ApoER2 protein levels in response to neuronal activation and regulates dendritic spine morphogenesis and plasticity.

Human / Not Cited

Proceedings of the National Academy of Sciences of the United States of America (Feb 2006; 103: 2641)

"The HIV lipodrome: a raft with an unusual composition."

Author(s):Brügger B,Glass B,Haberkaert P,Leibrecht I,Wieland FT,Kräusslich HG

PubMed Article URL:http://dx.doi.org/10.1073/pnas.0511136103

13-6800 was used in Western Blotting to demonstrate that the E3 ubiquitin ligase, IDOL, regulates synaptic ApoER2 protein levels and is important for plasticity and learning.

Human / Not Cited

eLife (Sep 2017; 6:)

"The E3 ubiquitin ligase IDOL regulates synaptic ApoER2 levels and is important for plasticity and learning."


PubMed Article URL:http://dx.doi.org/10.17554/eLife.29178

13-6800 was used in Immunocytochemistry to characterize a distinct multisystem disorder caused by mutations affecting VPS4A and demonstrate that its normal function is required for multiple human developmental and cellular processes.

Human / Not Cited

American journal of human genetics (Dec 2020; 107: 1129)

"De Novo VPS4A Mutations Cause Multisystem Disease with Abnormal Neurodevelopment."


PubMed Article URL:http://dx.doi.org/10.1016/j.ajhg.2020.10.012

13-6800 was used in western blot to investigate the distribution of sphingomyelins and ceramides in rat spermatogenic cells.

Rat / Not Cited

Journal of lipid research (Mar 2017; 58: 529)

"Sphingomyelins and ceramides with VLCPUFAs are excluded from low-density raft-like domains in differentiating spermatogenic cells."

Author(s):Santiago Valtierra FX,Mateos MV,Avelaño ML,Oresti GM

PubMed Article URL:http://dx.doi.org/10.1194/jlr.M072595

136800 was used in western blot to propose that neonatal splice variant of CaV1.2 channels contribute to heart disease

Human / 1:1000

Scientific reports (Oct 2016; 6:)

"Aberrant Splicing Promotes Proteasomal Degradation of L-type Ca<sub>V</sub>/Ca<sub>2+<</sub>/Ca<sub>2+<</sub>/Ca<sub>2+<</sub>/Subunits in Cardiac Hypertrophy."


PubMed Article URL:http://dx.doi.org/10.1038/srep35247

13-6800 was used in western blot to assess how intestinal homeostasis is regulated by a noncanonical role of transferrin receptor 1

Not Applicable / 1:1000

Proceedings of the National Academy of Sciences of the United States of America (Sep 2015; 112: 11714)

"Noncanonical role of transferrin receptor 1 is essential for intestinal homeostasis."

Author(s):Chen AC,Donovan A,Ned-Sykes R,Andrews NC

PubMed Article URL:http://dx.doi.org/10.1073/pnas.1511701112

13-6800 was used in western blot to study osteochondrodysplasia in Scottish fold cats by an underlying dominant TRPV4 variant

Not Applicable / Not Cited

Osteoarthritis and cartilage (Aug 2016; 24: 1441)

"A dominant TRPV4 variant underlies osteochondrodysplasia in Scottish fold cats."


PubMed Article URL:http://dx.doi.org/10.1016/j.joca.2016.03.019
13-6800 was used in Western Blot to identify dietary polyunsaturated fatty acids (PUFAs) as a trigger of GPX4-restricted mucosal phenotyping aspects of human Crohn's disease (CD).

**Human / 1:1000**

Nature communications (Apr 2020; 11: )

"**Dietary lipids fuel GPX4-restricted enteritis resembling Crohn's disease.**"

**Mouse / 1:1000**


PubMed Article URL:http://dx.doi.org/10.1038/s41467-020-15646-6

13-6800 was used in Western Blotting to probe the function of -syn in melanoma.

**Human / Not Cited**

Scientific reports (Mar 2021; 11: )

"**Knocking out alpha-synuclein in melanoma cells dysregulates cellular iron metabolism and suppresses tumor growth.**"


PubMed Article URL:http://dx.doi.org/10.1038/s41598-021-84443-y

13-6800 was used in Western Blotting to show that iRhom2 remains associated with TACE throughout the secretory pathway, and is stabilised at the cell surface by this interaction in mice.

**Mouse / 1:1000**

eLife (Apr 2017; 6: )

"**Phosphorylation of iRhom2 at the plasma membrane controls mammalian TACE-dependent inflammatory and growth factor signalling.**"

Author(s): Grieve AG, Xu H, Künzel U, Bamborough P, Sieber B, Freeman M

PubMed Article URL:http://dx.doi.org/10.7554/eLife.23968

13-6800 was used in Western Blot to characterise a KCNB1 variant associated with neurodevelopmental disorders.

**Human / 1:500**

Neurology. Genetics (Dec 2017; 3: )

"**Characterization of a <ins> KCNB1 >ins variant associated with autism, intellectual disability, and epilepsy.**"

Author(s): Calhoun JD, Yanovey CG, Kok F, George AL, Kearney JA

PubMed Article URL:http://dx.doi.org/10.1212/NXG.0000000000000198

13-6890 was used in western blot to determine how modulation of FAK and Src adhesion signalling occurs without the need for adhesion complex composition.

**Not Applicable / 1:1000**

The Journal of cell biology (Feb 2016; 212: 349)

"**Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition.**"

Author(s): Horton ER, Humphries JD, Stutchbury B, Jacquemet G, Ballestrem C, Barry ST, Humphries MJ

PubMed Article URL:http://dx.doi.org/10.1083/jcb.201508080

13-6800 was used in Western Blot to suggest that TRPML3 represents a key regulator of MMP-12 cleavage by alveolar macrophages and may serve as therapeutic target for emphysema and chronic obstructive pulmonary disease.

**Mouse / 1:500**

Nature communications (Jan 2022; 13: )

"**Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mice.**"


PubMed Article URL:http://dx.doi.org/10.1038/s41467-021-27860-x

13-6800 was used in Western Blotting to functionally characterise a KCNB1 variant associated with neurodevelopmental disorders.

**Human / 1:500**

The Journal of biological chemistry (Jun 2020; 295: 8613)

"**Inducible transcription of a subset of NMDAR-sensitive genes.**"

Author(s): Horton ER, Humphries JD, Stutchbury B, Hussong S, Hung HC, Ballestrem C, Barry ST, Humphries MJ

PubMed Article URL:http://dx.doi.org/10.1083/jbc.RA119.010266

13-6800 was used in Western Blotting to determine how modulation of FAK and Src adhesion signalling occurs without the need for adhesion complex composition.

**Mouse / 1:500**

Nature communications (Jan 2022; 205: 8613)

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**Human / Not Cited**

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PubMed Article URL:http://dx.doi.org/10.1083/jcb.201508080

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**Mouse / 1:500**

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Author(s): Calhoun JD, Yanovey CG, Kok F, George AL, Kearney JA

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PubMed Article URL:http://dx.doi.org/10.1083/jcb.201508080

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**Mouse / 1:500**

The Journal of biological chemistry (Jun 2020; 295: 8613)

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Author(s): Horton ER, Humphries JD, Stutchbury B, Hussong S, Hung HC, Ballestrem C, Barry ST, Humphries MJ

PubMed Article URL:http://dx.doi.org/10.1083/jbc.RA119.010266

13-6800 was used in Western Blot to determine how modulation of FAK and Src adhesion signalling occurs without the need for adhesion complex composition.
13-6800 was used in Western Blot to conclude that dimeric subcomplexes aided by Sec24 paralog selectivity support a stepwise assembly of -secretase, controlling final levels in post-Golgi compartments.

Mouse / 1:400

The Journal of cell biology (Sep 2021; 220: )

"Assembly of -secretase occurs through stable dimers after exit from the endoplasmic reticulum."


PubMed Article URL: http://dx.doi.org/10.1083/jcb.201911104

13-6800 was used in Western Blot to investigate the metabolic link between iron and polyamine metabolism.

Human / 1:2000

Biochimica et biophysica acta. Molecular basis of disease (Sep 2018; 1864: 2793)

"Coupling of the polyamine and iron metabolism pathways in the regulation of proliferation: Mechanistic links to alterations in key polyamine biosynthetic and catabolic enzymes."

Author(s): Lane DJR, Bae DH, Siafarakis A, Suryo Rahmanto Y, Al-Akra L, Jansson P J, Casero RA, Richardson DR

PubMed Article URL: http://dx.doi.org/10.1016/j.bbadis.2018.05.007

13-6800 was used in western blot to test if dietary copper-deficient rodents have lower levels of glycosylphosphatidylinositol-anchored ceruloplasmin and if this correlates with higher tissue iron retention.

Rat / Not Cited

Experimental biology and medicine (Maywood, N.J.) (Mar 2011; 236: 298)

"Glycosylphosphatidylinositol-linked ceruloplasmin is expressed in multiple rodent organs and is less following dietary copper deficiency."

Author(s): Mostad EJ, Prohaska JR

PubMed Article URL: http://dx.doi.org/10.1258/ebm.2010.010256

13-6800 was used in Western Blotting to provide a molecular transcriptomics map of key receptor-mediated transcytosis (RMT) receptors in mouse and human brain microvessels and peripheral tissues, important to translational studies of biodistribution, efficacy and safety of antibodies developed against these receptors.

Human / Not Cited


"Neuronal Chloride Regulation via KCC2 Is Modulated through a GABA Receptor Protein Complex."

Author(s): Wright R, Newey SE, Ille A, Wefelmeyer W, Raimondo JV, Ginham R, Mcllhinney RAJ, Akerman CJ

PubMed Article URL: http://dx.doi.org/10.1097/JNEUROSCI.2164-16.2017

13-6800 was used in Western Blotting to identify novel cellular factors associated with ER-associated protein degradation.

Human / 1:1000

The Journal of neuroscience : the official journal of the Society for Neuroscience (Jan 2021; 36: 225)

"The UFM1 Pathway Impacts HCMV US2-Mediated Degradation of HLA Class I."

Author(s): Schuren ABC, Boer IG, Bouma EM, Van de Weijer ML, Costa AI, Hubel P, Pichlmair A, Lebbink RJ, Wiertz EJHJ

PubMed Article URL: http://dx.doi.org/10.3390/molecules26020287

13-6800 was used in Western Blot to investigate the metabolic link between iron and polyamine metabolism.
13-6800 was used in Western Blotting to study the expression of iron regulatory protein-2 in colorectal cancer.

Cancer science (Jun 2017; 108: 1135)
"BRAF mutations are associated with increased iron regulatory protein-2 expression in colorectal tumorigenesis."
PubMed Article URL: http://dx.doi.org/10.1111/cas.13234

Non-human primate / 1 μg/ml
13-6800 was used in immunocytochemistry and western blot to discuss functions regulated by human CIC-6

PloS one (May 2007; 2: )
"Human CIC-6 is a late endosomal glycoprotein that associates with detergent-resistant lipid domains."
Author(s): Ignoull S, Simaejs J, Hermans D, Annaert W, Eggermont J
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0000474

Not Applicable / Not Cited
13-6800 was used in western blot to elucidate the compartmentalization of breast cancer resistance protein ABCG2 in the plasma membrane and the influence of membrane cholesterol on its efflux activity

The Journal of pharmacology and experimental therapeutics (Oct 2007; 323: 257)
"Localization of the human breast cancer resistance protein (BCRP/ABCG2) in lipid rafts/caveolae and modulation of its activity by cholesterol in vitro."
Author(s): Storch CH, Ehehalt R, Haefeli WE, Weiss J
PubMed Article URL: http://dx.doi.org/10.1124/jpet.107.122994

Not Applicable / Not Cited
13-6800 was used in western blot to identify which guanine nucleotide exchange factors mediate the functional interaction of HIV-1 Nef with p21-activate kinase 2 activity

Journal of virology (Mar 2008; 82: 2918)
"Human immunodeficiency virus type 1 Nef recruits the guanine exchange factor Vav1 via an unexpected interface into plasma membrane microdomains for association with p21-activated kinase 2 activity."
Author(s): Rauch S, Pulkkinen K, Sakselia K, Faceller OT
PubMed Article URL: http://dx.doi.org/10.1128/JVI.02185-07

Not Applicable / Not Cited
13-6800 was used in western blot to analyze the role of Pael receptor expression in regulating dopamine levels in dopaminergic neurons

Neuroscience research (Dec 2007; 59: 413)
"Pael receptor is involved in dopamine metabolism in the nigrostriatal system."
PubMed Article URL: http://dx.doi.org/10.1016/j.neures.2007.08.005

Hamster / Not Cited
13-6800 was used in Western Blot to identify potent combination therapies for TNBC and unveiled ferroptosis as a promising therapeutic strategy.

The Journal of biological chemistry (Aug 2001; 276: 30729)
"Cross-talk between caveolae and glycosylphosphatidylinositol-rich domains."
Author(s): Abrami L, Fivaz M, Kobayashi T, Kinoshita T, Parton RG, van der Goot FG
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M102039200

Human / Not Cited
13-6800 was used in Western Blotting to study the expression of iron regulatory protein-2 in colorectal cancer.

Science advances (Aug 2020; 6: )
"Synthetic lethal combination targeting BET uncovered intrinsic susceptibility of TNBC to ferroptosis."
PubMed Article URL: http://dx.doi.org/10.1126/sciadv.aba9868

Not Applicable / Not Cited
13-6800 was used in western blot to identify which guanine nucleotide exchange factors mediate the functional interaction of HIV-1 Nef with p21-activate kinase 2 activity

Frontiers in cell and developmental biology (Feb 2023; 10: )
"Discovery of Small Molecule KCC2 Potentiators Which Attenuate In Vitro Seizure-Like Activity in Cultured Neurons."
Author(s): Prael Iii FJ, Kim K, Du Y, Spitznagel BD, Sulikowski GA, Delpire E, Weaver CD
PubMed Article URL: http://dx.doi.org/10.3389/fcell.2022.912812

Human / 1:500
13-6800 was used in Western Blot to evaluate the therapeutic potential of pharmaceutical KCC2 potentiation.

The Journal of pharmacology and experimental therapeutics (Oct 2007; 323: 257)
"Localization of the human breast cancer resistance protein (BCRP/ABCG2) in lipid rafts/caveolae and modulation of its activity by cholesterol in vitro."
Author(s): Storch CH, Ehehalt R, Haefeli WE, Weiss J
PubMed Article URL: http://dx.doi.org/10.1124/jpet.107.122994

Mouse / Not Cited
13-6800 was used in western blot to investigate the anti-melanogenic properties of geoditin A.

Marine drugs (Feb 2012; 10: 465)
"Anti-melanogenic property of geoditin A in murine B16 melanoma cells."
Author(s): Cheung FWK, Guo J, Ling YH, Che CT, Liu WK
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0000474


Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is void only when usage by properly trained individuals. Unless otherwise stated in the Documentation, the warranty is limited to one year from date of shipment when the Product is subjected to normal, proper, and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

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13-6800 was used in Western Blot, Immunocytochemistry to show that galectin-3 (Gal3), a -galactoside-binding cytosolic lectin, unifies and coordinates ESCRT and autophagy responses to lysosomal damage.

**Human / 1:1000**

*Developmental cell (Jan 2020; 52: 69)*

"Galectin-3 Coordinates a Cellular System for Lysosomal Repair and Removal."


**PubMed Article URL:** http://dx.doi.org/10.1016/j.devel.2019.10.025

13-6800 was used in western blot to elucidate the cellular functions of GPR56 receptor and how they contribute to bilateral frontoparietal polymicrogyria.

**Human / 1:500**

The Journal of biological chemistry (Apr 2011; 286: 14215)

"Disease-associated GPR56 mutations cause bilateral frontoparietal polymicrogyria via multiple mechanisms."

**Author(s):** Chiang NY, Hsiao CC, Huang YS, Chen HY, Hsieh JJ, Chang GW, Lin HH

**PubMed Article URL:** http://dx.doi.org/10.1074/jbc.M110.183830

13-6800 was used in western blot to elucidate the molecular basis of protein sorting into exosomes.

Not Applicable / Not Cited

Cell biology international (Jan 2009; 33: 36)

"Exosomal sorting of the cytoplasmic domain of bovine leukemia virus TM Env protein."

**Author(s):** De Gassart A, Trentin B, Martin M, Hocquette A, Bette-Bobillo P, Mamoun R, Vidal M

**PubMed Article URL:** http://dx.doi.org/10.1182/blood-2009-07-231449

13-6800 was used in western blot to examine the role of galectin-5 in the exosomal sorting pathway during rat reticulocyte maturation.

Not Applicable / Not Cited

Blood (Jan 2010; 115: 696)

"Galectin-5 is bound onto the surface of rat reticulocyte exosomes and modulates vesicle uptake by macrophages."

**Author(s):** Barrès C, Blanc L, Bette-Bobillo P, André S, Mamoun R, Gabius HJ, Vidal M

**PubMed Article URL:** http://dx.doi.org/10.1016/j.cellbi.2008.10.001

13-6800 was used in Flow cytometry to elucidate the plasma pharmacokinetics and safety of a high-affinity bivalent TIRMAb with a murine constant region following acute and chronic subcutaneous dosing in adult C57BL/6J male mice.

**Mouse / 1:1000**

Pharmaceutics (Sep 2020; 12: )

"Acute and Chronic Dosing of a High-Affinity Rat/Mouse Chimeric Transferrin Receptor Antibody in Mice."

**Author(s):** Castellanos DM, Sun J, Yang J, Ou W, Zambon AC, Partridge WM, Sumbria RK

**PubMed Article URL:** http://dx.doi.org/10.3390/pharmaceutics12090852

13-6800 was used in western blot to study the ability of a variant of ubiquilin-1 to increase gamma-secretase-mediated cleavage of APP at the episomal site.

**Human / 1:1000**

Biochemistry (Jun 2013; 52: 3899)

"Ubiquilin-1 modulates -secretase-mediated -site cleavage in neuronal cells."

**Author(s):** Viswanathan J, Haapasaalo A, Kurkinen KM, Natunen T, Mäkinnen P, Bertram L, Soininen H, Tanzi RE, Hiltunen M

**PubMed Article URL:** http://dx.doi.org/10.1021/bi400138p

10 Flow Cytometry References

**Species / Dilution**

**Summary**

13-6890 was used in Flow cytometry/Cell sorting to suggest that the use of engineered bionanocages also offers unprecedented opportunities for selective targeted chemotherapy of solid tumors in veterinary medicine.

**Cat / Not Cited**

Cancers (Mar 2021; 13: )

"Evaluation of TFR-1 Expression in Feline Mammary Cancer and In Vitro Antitumor Efficacy Study of Doxorubicin-Loaded H-Ferritin Nanocages."


**PubMed Article URL:** http://dx.doi.org/10.3390/cancers13061248

13-6800 was used in Flow cytometry/Cell sorting to find that anti-TFR1 and anti-malondialdehyde adduct antibodies are effective at staining ferroptotic tumor cells in multiple cell culture and tissue contexts.

**Human / 1:250**

Cell reports (Mar 2020; 30: 3411)

"Transferrin Receptor Is a Specific Ferroptosis Marker."


**PubMed Article URL:** http://dx.doi.org/10.1016/j.celrep.2020.02.049
13-6800 was used in flow cytometry and western blot to report that the human herpesvirus-7 U21 gene product interferes with natural killer cell recognition.

**Not Applicable / Not Cited**

PLOS pathogens (Nov 2011; 7: )
"The human herpesvirus-7 (HHV-7) U21 immunoevasin subverts NK-mediated cytotoxicity through modulation of MICA and MICB."
Author(s): Schneider CL, Hudson AW
PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1002362

13-6800 was used in flow cytometry and western blot to propose that transferrin receptor expression is involved in the regulation of ultraviolet light-resistance.

**Not Applicable / Not Cited**

Journal of radiation research (Dec 2005; 46: 443)
"Enhanced expression of transferrin receptor confers UV-resistance in human and monkey cells."
Author(s): Chen Z, Nomura J, Suzuki T, Suzuki N
PubMed Article URL: http://dx.doi.org/10.1269/jrr.46.443

13-6800 was used in flow cytometry to identify the residues responsible for the resistance or sensitivity of MHC class I molecules to US2- and US11-mediated down-regulation.

**Not Applicable / Not Cited**

International immunology (Jan 2006; 18: 173)
"Subtle sequence variation among MHC class I locus products greatly influences sensitivity to HCMV US2- and US11-mediated degradation."
Author(s): Barel MT, Pizzato N, Le Bouteiller P, Wiertz EJ, Lenfant F
PubMed Article URL: http://dx.doi.org/10.1093/intimm/dxn362

13-6800 was used in flow cytometry to study Nef inhibitors as a means to control HIV infection.

**Hamster / Not Cited**

PloS one (Oct 2011; 6: )
"Molecular design, functional characterization and structural basis of a protein inhibitor against the HIV-1 pathogenicity factor Nef."
Author(s): Breuer S, Schievink S, Schultheis A, Blankenfeldt W, Fackler OT, Geyer M
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0020033

13-6800 was used in flow cytometry, immunocytochemistry, and western blot to elucidate the physiological function of TSAP6.

**Not Applicable / Not Cited**

Cell death and differentiation (Nov 2008; 15: 1723)
"Exosome secretion, including the DNA damage-induced p53-dependent secretory pathway, is severely compromised in TSAP6/Steap3-null mice."
Author(s): Lespagnol A, Duflaud B, Beekman C, Blanc L, Fiucci G, Marine JC, Vidal M, Amson R, Telerman A
PubMed Article URL: http://dx.doi.org/10.1016/j.cdd.2008.10.041

13-6800 was used in Flow Cytometry/Cell sorting to reveal a conserved endocytic clearance mechanism in the AIS to maintain neuronal polarity by reinforcing axonal and dendritic compartment membrane boundaries.

**Rat / 1:1000**

Nature (Sep 2022; 609: 128)
"Endocytosis in the axon initial segment maintains neuronal polarity."
Author(s): Eichel K, Uenaka T, Belapurkar V, Lu R, Cheng S, Pak JS, Taylor CA, Südhof TC, Malenka R, Özkan E, Perrais D, Shen K
PubMed Article URL: http://dx.doi.org/10.1038/s41586-022-05074-5

13-6800 was used in Flow Cytometry/Cell sorting to determine that POU5F1B, in spite of its phylogenetic relationship with the POU5F1/OCT4 transcription factor, is a membrane-enriched protein that associates with protein kinases and known targets or interactors as well as with cytoskeleton-related molecules, and induces intracellular signaling events and the release of trans-activating factors involved in cell growth and cell adhesion.

**Human / 1:1000**

Nature communications (Aug 2022; 13: )
"Transposon-activated POU5F1B promotes colorectal cancer growth and metastasis."
PubMed Article URL: http://dx.doi.org/10.1038/s41467-022-32649-7

13-6800 was used in Flow Cytometry to investigate the internalisation and trafficking of polyplexes in HepG2 cells.

**Human / Not Cited**

"Macropinocytosis of polyplexes and recycling of plasmid via the clathrin-dependent pathway impair the transfection efficiency of human hepatocarcinoma cells."
Author(s): Gonçalves C, Mennesson E, Fuchs R, Gorvel JP, Midoux P, Pichon C
PubMed Article URL: http://dx.doi.org/10.1016/j.ymthe.2004.05.023

16 Immunohistochemistry References
<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse / 1:100</td>
<td>13-6800 was used in Immunohistochemistry to examine the liver gene expression pattern at diagnosis and found the top 5 enriched pathways are related to erythrocyte pathology in children who survived with the native liver beyond 2 years of age.</td>
</tr>
<tr>
<td>Human / 1:1000</td>
<td>13-6800 was used in Immunohistochemistry and western blot to examine the importance of iron in relation to amyloid-beta production within the retina.</td>
</tr>
<tr>
<td>Human / 1:1000</td>
<td>13-6800 was used in Immunohistochemistry to suggest that TIR1 plays an important role in the development of renal fibrosis.</td>
</tr>
<tr>
<td>Human / 1:1000</td>
<td>13-6800 was used in Immunohistochemistry to examine the role of caveolin-1 in the regulation of the in vivo-specific steps of neuronal maturation.</td>
</tr>
<tr>
<td>Human / 1:300</td>
<td>13-6800 was used in Western Blot to identify potent combination therapies for TNBC and unveiled ferroptosis as a promising therapeutic strategy.</td>
</tr>
<tr>
<td>Human / 1:300</td>
<td>13-6800 was used in Immunohistochemistry to evaluate the tolerability and efficacy of the Ruthenium-based photosensitizer TLD-1433 with apo-Transferrin in the rat glioma 2 model.</td>
</tr>
</tbody>
</table>


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13-6800 was used in Immunohistochemistry to study the localisation of transferrin receptor 1 to the apical brush border of the proximal tubule in mouse and rat kidneys.

**Mouse / 1:2,500**

The Journal of biological chemistry (Apr 2019; 294: 7025)
"Proximal tubule transferrin uptake is modulated by cellular iron and mediated by apical membrane megalin-cubilin complex and transferrin receptor 1."
Author(s): Smith CP, Lee WK, Haley M, Poulsen SB, Thévenod F, Fenton RA
PubMed Article URL:http://dx.doi.org/10.1074/jbc.RA118.006390

13-6800 was used in Flow cytometry/Cell sorting to find that anti-TIR1 and anti-malondialdehyde adduct antibodies are effective at staining ferroptotic tumor cells in multiple cell culture and tissue contexts.

**Mouse / 1:250**

Cell reports (Mar 2020; 30: 3411)
"Transferrin Receptor Is a Specific Ferroptosis Marker."
PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2020.02.049

13-6800 was used in Immunohistochemistry to show transferrin-dependent iron transport machinery is distinct in different placental cells.

**Mouse / Not Cited**

Current developments in nutrition (Apr 2021; 5: )
"Localization and Kinetics of the Transferrin-Dependent Iron Transport Machinery in the Mouse Placenta."
Author(s): Cao C, Fleming MD
PubMed Article URL:http://dx.doi.org/10.1093/cdn/nzab025

136800 was used in immunohistochemistry to discuss the consequences of iron supplementation in patients with colorectal cancer

**Human / 1:200**

Wiener medizinische Wochenschrift (Oct 1966; 166: 431)
"Iron, microflora and colorectal cancer."  
Author(s): Ng O
PubMed Article URL:http://dx.doi.org/10.1007/s10354-016-0508-4

Molecular pharmacology (Nov 2011; 80: 809)
"Expression and distribution of nucleoside transporter proteins in the human syncytiotrophoblast."
Author(s): Errasti-Murugarren E, Diaz P, Godoy V, Riquelme G, Pastor-Anglada M
PubMed Article URL:http://dx.doi.org/10.1124/mol.111.071837

13-6800 was used in Immunocytochemistry, Immunohistochemistry to provide a different histological method for both molecular mechanism research and accurate diagnosis of human cancer.

**Human / 1:250**

Proceedings of the National Academy of Sciences of the United States of America (Feb 2022; 119: )
"Immunomagnetic microscopy of tumor tissues using quantum sensors in diamond."
PubMed Article URL:http://dx.doi.org/10.1073/pnas.2118876119

13-6800 was used in Immunohistochemistry to show the importance of the syntenin-PIP2 interaction for plasma membrane targeting of Frizzled 7 and c-jun phosphorylation via the PDZ2 domain.

**Human / Not Cited**

Nature communications (Jul 2016; 7: )
"Frizzled 7 and PIP2 binding by syntenin PDZ2 domain supports Frizzled 7 trafficking and signalling."
PubMed Article URL:http://dx.doi.org/10.1038/ncomms12101

1 GST Pull Down References

**Species / Dilution**

Summary

13-6800 was used in GST Pull Down to understand how Wnt signalling causes endocytotic mechanisms involving the reduction of focal adhesion proteins and integrin beta 1 from the cell surface.

**Human / Not Cited**

iScience (Apr 2022; 25: )
"Canonical Wnt signaling induces focal adhesion and Integrin beta-1 endocytosis."
Author(s): Tejeda-Muñoz N, Morselli M, Moriyama Y, Sheladuya P, Pellegrini M, De Robertis EM
PubMed Article URL:http://dx.doi.org/10.1016/j.isci.2022.104123

16 Immunoprecipitation References

**Species / Dilution**

Summary

13-6800 was used in Immunoprecipitation References to provide data on various species and dilutions.
13-6800 was used in immunoprecipitation and western blot to study the regulation and function of soluble beta2microglobulin-HFE monochain and transferrin receptor.

**Human / Not Cited**

FEBS letters (May 2002; 518: 101)

"Association of human transferrin receptor with GABARAP."

Author(s): Green F.O'Hare T,Blackwell A,Enns CA

PubMed Article URL:http://dx.doi.org/10.1016/s0014-5793(02)02655-8

13-6800 was used in Western Blot, Immunoprecipitation to demonstrate that the neuronal K+/Cl- cotransporter 2 (KCC2) interacts with the SNARE protein synaptoctosome-associated protein 23 (SNAP23).

**Human / Not Cited**

iScience (Feb 2022; 25: )

"SNAP23 regulates KCC2 membrane insertion and activity following mZnR/GPR39 activation in hippocampalneurons."

Author(s): Asral H,Bogdanovic M,Gottesman N,Seiker I,Aizenman E,Hershfinkel M

PubMed Article URL:http://dx.doi.org/10.1016/j.isci.2022.103751

13-6800 was used in Immunoprecipitation to show that human ZDHHC6 is controlled by an upstream palmitoyltransferase, ZDHHC16, revealing the first palmitoylation cascade.

**Human / Not Cited**

eLife (Aug 2017; 6: )

"Identification and dynamics of the human ZDHHC16-ZDHHC6 palmitoylation cascade."

Author(s): Abrami L,Dallavilla T,Sandoz PA,Demir M,Kunz B,Savoglidi G,Hatzimanikatis V,van der Goot FG

PubMed Article URL:http://dx.doi.org/10.7554/eLife.27826

13-6800 was used in Immunoprecipitation to find that SteD targets the plasma membrane protein CD97 for degradation by a similar mechanism.

**Mouse / Not Cited**

PLoS pathogens (Jul 2021; 17: )

"CD97 stabilises the immunological synapse between dendritic cells and T cells and is targeted for degradation by the Salmonella effector SteD."

Author(s): Cerny O,Godlee C,Tocci R,Cross NE,Shi H,Williamson JC,Alix E,Lehner PJ,Holden DW

PubMed Article URL:http://dx.doi.org/10.1371/journal.ppat.1009771

The Journal of biological chemistry (Mar 2007; 282: 6201)

"The Cytoplasmic domain of transferrin receptor 2 dictates its stability and response to holo-transferrin in Hep3B cells."

Author(s): Chen J,Enns CA

PubMed Article URL:http://dx.doi.org/10.1074/jbc.M610127200

**Human / Not Cited**


"Human cytomegalovirus-encoded US2 differentially affects surface expression of MHC class I locus products and targets membrane-bound, but not soluble HLA-G1 for degradation."

Author(s): Barel MT,Ressing M,Pizzato N,van Leeuwen D,Le Bouteiller P,Lenfant F,Wiertz EJ

PubMed Article URL:http://dx.doi.org/10.1049/jimmunol.171.12.6757

**Human / Not Cited**

Journal of virology (Jan 2012; 86: 757)

"Transmembrane domain determinants of CD4 Downregulation by HIV-1 Vpu."

Author(s): Magadan JG,Bonifacino JS

PubMed Article URL:http://dx.doi.org/10.1128/JVI.05933-11
13-6800 was used in immunoprecipitation to investigate the relationship between TRPV4 mutation and FDAB.

**Human / Not Cited**

*Nature genetics* (Oct 2011; 43: 1142)

"Mutations in TRPV4 cause an inherited arthropathy of hands and feet."


PubMed Article URL: http://dx.doi.org/10.1038/ng.945

**Human / Not Cited**

*The Journal of biological chemistry* (Sep 2005; 280: 30768)

"BRI2 interacts with amyloid precursor protein (APP) and regulates amyloid beta (Abeta) production."

Author(s): Fotinopoulou A, Tsachaki M, Viavaki M, Poulopoulos A, Rostagno A, Frangiote B, Ghiso J, Efthimiopoulos S

PubMed Article URL: http://dx.doi.org/10.1074/jbc.C500231200

**Mouse / Not Cited**

*The Journal of biological chemistry* (Jul 2014; 289: 18736)

"The epigenetic drug 5-azacytidine interferes with cholesterol and lipid metabolism."

Author(s): Poirier S, Samani S, Mamarchab M, Demers A, Chang TY, Vance DE, Hatch GM, Mayer G

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M114.636350

**Species / Dilution**

**Summary**

13-6800 was used in immunocytochemistry and western blot to demonstrate that CPXV012 inhibits peptide transport by inhibiting ATP binding to the transporter associated with antigen processing.

**Hamster / 1:200**

*Proceedings of the National Academy of Sciences of the United States of America* (Jan 2012; 109: 823)

"Cullin-3 regulates late endosome maturation."

Author(s): Huotari J, Meyer-Schaller N, Hubner M, Staufler S, Katheder N, Horvath P, Mancini R, Helenius A, Peter M

PubMed Article URL: http://dx.doi.org/10.1073/pnas.1118744109

**Virus / Not Cited**

*Journal of Immunology* (Baltimore, Md. : 1950) (Aug 2014; 193: 1578)

"Cowpox virus protein CPXV012 eludes CTLs by blocking ATP binding to TAP."


PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1400964

### 93 Immunocytochemistry References

**Species / Dilution**

**Summary**

13-6800 was used in immunocytochemistry and western blot to identify and characterize a multiprotease complex containing both alpha- and gamma-secretase.

**Hamster / 1:200**

*The Journal of cell biology* (Dec 2015; 211: 1157)


Author(s): Chen AC, Kim S, Shepardson N, Patel S, Hong S, Selkoe DJ

PubMed Article URL: http://dx.doi.org/10.1083/jcb.201502001

13-6800 was used in Immunocytochemistry-immunofluorescence to develop a straightforward correlative imaging approach utilising commonly available instrumentation to sample large numbers of cell-cell interaction events.

**Hamster / 1:200**

*Scientific reports* (May 2018; 8)

"A correlative and quantitative imaging approach enabling characterization of primary cell-cell communication: Case of human CD4<sup>+</sup>-</sup> T cell-macrophage immunological synapses.

Author(s): Kasprowicz R, Rand E, O'Toole PJ, Signoret N

PubMed Article URL: http://dx.doi.org/10.1038/s41598-018-26172-3

13-6800 was used in Immunocytochemistry to investigate how the deltaOR-Cys27 variant affects amyloid precursor protein processing and trafficking.

**Human / Not Cited**

*The Journal of Experimental Biology* (Jun 2011; 31: 2326)

"Cysteine 27 variant of the delta-opioid receptor affects amyloid precursor protein processing through altered endocytotic trafficking."


PubMed Article URL: http://dx.doi.org/10.1286/MCB.05015-11


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13-6800 was used in immunocytochemistry to learn how AMPA receptor trafficking is regulated by synaptic activity through different recycling pathways.

**eLife (May 2015; 4: )**

"Synaptic activity regulates AMPA receptor trafficking through different recycling pathways."

Author(s): Zheng J, Jeyifous O, Munro C, Montgomery JM, Green WN

PubMed Article URL: http://dx.doi.org/10.7554/eLife.06878

136800 was used in immunocytochemistry and western blot to demonstrate that ATP9A has an important role in recycling from endosomes to the plasma membrane.

**Human / Not Cited**

Molecular biology of the cell (Dec 2016; 27: 3883)

"The phospholipid flipase ATP9A is required for the recycling pathway from the endosomes to the plasma membrane."

Author(s): Tanaka Y, Ono N, Shima T, Tanaka G, Katoh Y, Nakayama K, Takatsu H, Shin HW

PubMed Article URL: http://dx.doi.org/10.1091/mbc.E16-08-0586

**Traffic (Copenhagen, Denmark) (Dec 2014; 15: 1305)**

"Stable cell surface expression of GPI-anchored proteins, but not intracellular transport, depends on their fatty acid structure."

Author(s): Jaensch N, Corrèa IR, Watanabe R

PubMed Article URL: http://dx.doi.org/10.1111/tra.12224

13-6800 was used in immunocytochemistry to propose that BIG2 regulates the structural integrity of the recycling endosome through activating class I ADP-ribosylation factors.

**Human / Not Cited**

Molecular biology of the cell (Dec 2004; 15: 5283)

"BIG2, a guanine nucleotide exchange factor for ADP-ribosylation factors: its localization to recycling endosomes and implication in the endosome integrity."

Author(s): Shin HW, Morinaga N, Noda M, Nakayama K

PubMed Article URL: http://dx.doi.org/10.1091/mbc.e04-05-0388

13-6800 was used in immunocytochemistry and western blot to investigate the mechanisms by which stellettin A (s) inhibits the growth of B6F0 murine melanoma cells.

**Mouse / Not Cited**

Journal of natural products (Apr 2012; 75: 586)

"Stellettin A induces endoplasmic reticulum stress in murine B16 melanoma cells."

Author(s): Liu WK, Ling YH, Cheung FW, Che CT

PubMed Article URL: http://dx.doi.org/10.1021/np2008158

13-6800 was used in immunocytochemistry to study the role of VAMP3/cellubrevin and VAMP7/TI-VAMP in myelin membrane trafficking.

**Not Applicable / Not Cited**

The Journal of neuroscience : the official journal of the Society for Neuroscience (Apr 2011; 31: 5659)

"Transport of the major myelin proteolipid protein is directed by VAMP3 and VAMP7."


PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.6638-10.2011

13-6800 was used in immunocytochemistry to report that foot-and-mouth disease virus infection proceeds via clathrin-dependent endocytosis.

**Not Applicable / Not Cited**

Journal of virology (Jul 2005; 79: 8519)

"Early events in integrin alphavbeta6-mediated cell entry of foot-and-mouth disease virus."

Author(s): Berryman S, Clark S, Monaghan P, Jackson T


13-6800 was used in immunocytochemistry and western blot to demonstrate that ATP9A has an important role in recycling from endosomes to the plasma membrane.

**Mouse / 1:4000**

"Super-resolution microscopy reveals majorly mono- and dimeric presenilin1/ -secretase at the cell surface."


PubMed Article URL: http://dx.doi.org/10.7554/eLife.56679
<table>
<thead>
<tr>
<th>Species</th>
<th>Cited/Not Cited</th>
<th>PubMed Article URL</th>
<th>Description</th>
</tr>
</thead>
</table>
| Human   | / 1:250        | thermofisher.com/contactus | Cell reports (Mar 2020; 30: 3411) **Transferrin Receptor Is a Specific Ferroptosis Marker.** 
| Human   | / Not Cited    | thermofisher.com/contactus | 13-6800 was used in Immunohistofluorescence to study the mechanism by which SNX16 regulates the recycling trafficking of E-cadherin. 
**SNX16 Regulates the Recycling of E-Cadherin through a Unique Mechanism of Coordinated Membrane Cargo Binding.** 
| Dog     | / Not Cited    | thermofisher.com/contactus | Journal of virology (Apr 2001; 75: 3896) **Canine and feline parvoviruses can use human or feline transferrin receptors to bind, enter, and infect cells.** 
| Mouse   | / 1:500        | thermofisher.com/contactus | 13-6800 was used in immunocytochemistry to develop a method to automatically assess dendrite morphology, synapse size, number, and other neuronal characteristics. 
**Automated analysis of neuronal morphology, synapse number and synaptic recruitment.** 
| Mouse   | / 1:300        | thermofisher.com/contactus | 13-6800 was used in immunocytochemistry to identify the substrates for ABCC11 and gamma-glutamyl transferase 1 in the apocrine sweat gland 
**Methods of analysis of the membrane trafficking pathway from recycling endosomes to lysosomes.** 
| Mouse   | / Not Cited    | thermofisher.com/contactus | Experimental dermatology (Apr 2014; 23: 247) **Glutathione-conjugated sulfanylalkanols are substrates for ABCC11 and -glutamyl transferase 1: a potential new pathway for the formation of odorant precursors in the apocrine sweat gland.** 
| Human   | / 1:1,000      | thermofisher.com/contactus | The Journal of biological chemistry (May 2013; 288: 14788) **A role for cargo in Arf-dependent adaptor recruitment.** 
Author(s): Caster AH, Sztul E, Kahn RA PubMed Article URL: [http://dx.doi.org/10.1074/jbc.M113.453621](http://dx.doi.org/10.1074/jbc.M113.453621) |
| Not Applicable | / Not Cited | thermofisher.com/contactus | 13-6800 was used in immunocytochemistry and western blot to demonstrate that treatment of K562 cells with the phorbol ester TPA induces the down-modulation of various surface antigens. 
**Transferrin receptor and the tetraspanin web molecules CD9, CD81, and CD9P-1 are differentially sorted into exosomes after TPA treatment of K562 cells.** 
| Not Applicable | / Not Cited | thermofisher.com/contactus | Journal of cellular biochemistry (Oct 2007; 102: 650) **The transferrin receptor and the tetraspanin web molecules CD9, CD81, and CD9P-1 are differentially sorted into exosomes after TPA treatment of K562 cells.** 
Author(s): Abache T, Le Naour F, Planchon S, Harper F, Boucheix C, Rubinstein E PubMed Article URL: [http://dx.doi.org/10.1002/jcb.21318](http://dx.doi.org/10.1002/jcb.21318) |
Nature communications (May 2016; 7: )
"Cytoplasmic cyclin D1 regulates cell invasion and metastasis through the phosphorylation of paxillin."
Author(s):Fusté NP,Fernández-Hernández R,Cemeli T,Mirantes C,Pedraza N,Rafel M,Torres-Rosell J,Colomina N,Felezuelo F,Dolcet X,Gari E
PubMed Article URL:http://dx.doi.org/10.1038/ncomms11581

Molecular and cellular biology (Jan 2006; 26: 100)
"Distinct utilization of effectors and biological outcomes resulting from site-specific Ras activation: Ras functions in lipid rafts and Golgi complex are dispensable for proliferation and transformation."
Author(s):Matallanas D,Sanz Moreno V,Arozarena I,Calvo F,Aguado-Ibáñez L,Santos E,Berciano MT,Crespo P

PloS one (Jul 2009; 4: )
"Cellular microvesicle pathways can be targeted to transfer genetic information between non-immune cells."
Author(s):Skinner AM,ONeill SL,Kurre P
PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0006219

EMBO reports (Jul 2019; 20: )
"Drug-induced increase in lysobisphosphatidic acid reduces the cholesterol overload in Niemann-Pick type C cells and mice."
PubMed Article URL:http://dx.doi.org/10.1525/emb.201847055

PloS one (Sep 2017; 12: )
"TBC1D12 is a novel Rab11-binding protein that modulates neurite outgrowth of PC12 cells."
Author(s):Oguchi ME,Noguchi K,Fukuda M
PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0174883

EMBO reports (Jul 2019; 20: )
"SARS-CoV-2 infects human pancreatic cells and elicits cell impairment."
PubMed Article URL:http://dx.doi.org/10.1016/j.cmet.2021.05.013

PloS one (Sep 2017; 12: )
"TBC1D12 is a novel Rab11-binding protein that modulates neurite outgrowth of PC12 cells."
Author(s):Oguchi ME,Noguchi K,Fukuda M
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Human / 1:500
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Human / 1:100
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"SH3YL1 cooperates with ESCRT-I in the sorting and degradation of the EGF receptor."
Author(s):Hasegawa J,Jebri I,Yamamoto H,Tsujiya K,Tokuda E,Shibata H,Maki M,Itoh T
PubMed Article URL:http://dx.doi.org/10.1242/jcs.229179

13-6800 was used in Immunocytochemistry and western blot to determine regulation of metastasis and cell invasion through the phosphorylation of paxillin due to cytoplasmic cyclin D1

Non-human primate / Not Cited
13-6800 was used in immunocytochemistry to test if existing microvesicle pathways transfer RNA genomes horizontally between cells

Human / 1:200
13-6800 was used in Immunocytochemistry-immunofluorescence to conclude that lysobisphosphatidic acid controls endosomal cholesterol mobilisation and export to cellular destinations.

Mouse / Not Cited
13-6800 was used in Immunocytochemistry-immunofluorescence to test if existing microvesicle pathways transfer RNA genomes horizontally between cells

Human / 1:200
13-6800 was used in Immunocytochemistry to suggest that mitochondrial deficiency is a feature of PANK2-neurodegeneration and is explained by altered NADH/FADH substrate supply to oxidative phosphorylation.

Human / 1:500
13-6800 was used in Immunocytochemistry-immunofluorescence to show phosphoinositide-binding protein SH3YL1 is vesicular localized, prevents EGF trafficking from early to late endosomes, inhibits degradation of EGFR and mediates EGFR sorting into multivesicular bodies in a C-terminal SH3 domain-dependent manner.

Human / 1:100
Journal of cell science (Oct 2019; 132: )
"SH3YL1 cooperates with ESCRT-I in the sorting and degradation of the EGF receptor."
Author(s):Hasegawa J,Jebri I,Yamamoto H,Tsujiya K,Tokuda E,Shibata H,Maki M,Itoh T
PubMed Article URL:http://dx.doi.org/10.1242/jcs.229179
**Rat / Not Cited**


"Simultaneous monitoring of presynaptic transmitter release and postsynaptic receptor trafficking reveals an enhancement of presynaptic activity in metabotropic glutamate receptor-mediated long-term depression."

Author(s): Xu W, Tse YC, Dobie FA, Baudry M, Craig AM, Wong TP, Wang YT

PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.1508-12.2013

13-6890 was used in immunocytochemistry and western blot to examine the biotinylation of vesicular transporters as a tool for the study of presynaptic function.

**Human / 1:100**


"Functional characterization of retromer in GLUT4 storage vesicle formation and adipocyte differentiation."

Author(s): Yang Z, Hong LK, Follett J, Wabitsch M, Hamilton NA, Collins BM, Bugarcic A, Teasdale RD

PubMed Article URL: http://dx.doi.org/10.1098/rjfb.2015.0004

13-6800 was used in Immunocytochemistry to identify a role for retromer in the glucose transporter 4 storage vesicle formation and adipogenesis.

**Human / 1:100**

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"Functional characterization of retromer in GLUT4 storage vesicle formation and adipocyte differentiation."

Author(s): Yang Z, Hong LK, Follett J, Wabitsch M, Hamilton NA, Collins BM, Bugarcic A, Teasdale RD

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**Not Applicable / Not Cited**

Molecular biology of the cell (Nov 2014; 25: 3779)

"TBC1D9B functions as a GTPase-activating protein for Rab11a in polarized MDCK cells."

Author(s): Gallo Li, Liao Y, Ruiz WG, Clayton DR, Li M, Liu YY, Jiang Y, Fukuda M, Apodaca G, Yin XM

PubMed Article URL: http://dx.doi.org/10.1091/mbc.E13-10-0604

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**Human / 1:100**

Cell (Jul 2018; 174: 325)

"A Flat BAR Protein Promotes Actin Polymerization at the Base of Clathrin-Coated Pits."


PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2018.05.020

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**Rat / 1:1,000**

iScience (Mar 2019; 13: 452)

"Alzheimer A Assemblies Accumulate in Excitatory Neurons upon Proteasome Inhibition and Kill Nearby NAK3 Neurons by Secretion."


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13-6800 was used in Immunocytochemistry to study the NPC-deficient cells by expression of Ca²⁺-permeable two-pore channels and rescue of NAADP signaling

**Not Applicable / Not Cited**

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"Expression of Ca⁺⁻permeable two-pore channels rescues NAADP signalling in TPC-deficient cells."


PubMed Article URL: http://dx.doi.org/10.1525/embj.201490009

13-6800 was used in Immunocytochemistry-immunofluorescence to test the hypothesis that PMCA-Neuroplastin complexes exist in specific ganglioside-containing rafts, which could affect calcium homeostasis.

**Mouse / 1:2000**

International Journal of Molecular Sciences (Dec 2021; 22:)

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PubMed Article URL: http://dx.doi.org/10.3390/ijms222413590

13-6800 was used in Immunocytochemistry to elucidate a role for retromer in the glucose transporter 4 storage vesicle formation and adipogenesis.

**Not Applicable / 1:200**

The Journal of biological chemistry (Dec 2009; 284: 34433)

"Down-regulation of seladin-1 increases BACE1 levels and activity through enhanced GGA3 depletion during apoptosis."

Author(s): Sarajärvi T, Haapasalo A, Viswanathan J, Mäkinen P, Laitinen M, Soininen H, Hiltunen M

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M109.036202

13-6800 was used in Immunocytochemistry to examine the effects of seladin-1 down-regulation on the beta-secretase function and beta-amyloid precursor protein processing.

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Not Applicable / Not Cited
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Not Applicable / Not Cited
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Human / Not Cited
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Not Applicable / 1:100
Journal of cell science (Dec 2004; 117: 6401) "Multiple regions contribute to membrane targeting of Rab GTPases." Author(s): Ali, BR, Wasmiefer C, Lamoreux L, Strom M, Seabra MC
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Human / Not Cited
PubMed Article URL: http://dx.doi.org/10.1016/j.ajhg.2020.10.012

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Zebrafish / Not Cited
PubMed Article URL: http://dx.doi.org/10.1073/pnas.1204948109

13-6800 was used in Immunocytochemistry to study that fly and mammalian recycling endosomes are organelles that are equivalent to trans-Golgi networks in plants.

Not Applicable / Not Cited
PubMed Article URL: http://dx.doi.org/10.1247/csf.07045

13-6800 was used in Immunocytochemistry to study that the transferrin receptor is a receptor for mink enteritis virus, but not Aleutian mink disease parvovirus.

Human / 1:1000
PubMed Article URL: http://dx.doi.org/10.1242/jcs.26395

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Not Applicable / 1:200
Virology (Sep 2005; 340: 1) "Two mink parvoviruses use different cellular receptors for entry into CRFK cells." Author(s): Park GS, Best SM, Bloom ME
PubMed Article URL: http://dx.doi.org/10.1016/j.virol.2005.06.038


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13-6800 was used in immunocytochemistry to examine major cytoskeletal elements involved in cellular trafficking of complexes made with PEI derivatives.

Not Applicable / 1:200
Journal of controlled release: official journal of the Controlled Release Society (Sep 2007; 122: 111)
"Cytoskeletal involvement in the cellular trafficking of plasmid/PEI derivative complexes."
Author(s): Grosse S, Aron Y, Thévenot G, Monsigny M, Fajac I
PubMed Article URL: http://dx.doi.org/10.1016/j.jconrel.2007.06.015

136890 was used in immunocytochemistry to study the entry and uncoating of African swine fever virus.

Pig / 1:25
"African Swine Fever Virus Undergoes Outer Envelope Disruption, Capsid Disassembly and Inner Envelope Fusion before Core Release from Multivesicular Endosomes."
Author(s): Hernández B, Guerra M, Salas ML, Andrés G
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13-6800 was used in immunocytochemistry to characterize the association between intermediate filament proteins and AP-3.

Not Applicable / Not Cited
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"The endo-lysosomal sorting machinery interacts with the intermediate filament cytoskeleton."
Author(s): Styers ML, Salazar G, Love R, Peden AA, Kowalczyk AP, Faundez V
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Not Applicable / 1:10,000
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Not Applicable / 1:200
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Human / 1:500
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"DropArray™, a wall-less 96-well plate for uptake and immunofluorescence microscopy, confirms CD22 recycles."
Author(s): Ingle GS, Scales SJ
PubMed Article URL: http://dx.doi.org/10.1111/tra.12144

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Human / Not Cited
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"An in vitro FcRn-dependent transcytosis assay as a screening tool for predictive assessment of nonspecific clearance of antibody therapeutics in humans."
PubMed Article URL: http://dx.doi.org/10.1080/19420862.2019.1605270

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Human / Not Cited
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"Interferon Gamma Prevents Infectious Entry of Human Papillomavirus 16 via an L2-Dependent Mechanism."
Author(s): Day PM, Thompson CD, Lowy DR, Schiller JT
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Mouse / 1:100
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"Real-time 3D stabilization of a super-resolution microscope using an electrically tunable lens."
Author(s): Tafteh R, Abraham L, Lee D, Lu HY, Gold MR, Chou KC
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13-6800 was used in Flow cytometry/Cell sorting to suggest that the use of engineered bionanocages also offers unprecedented opportunities for selective targeted chemotherapy of solid tumors in veterinary medicine.

13-6800 was used in immunocytochemistry to report that AP-3 and AP-1 function independently in sorting tyrosinase from endosomes to the melanosome.

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"Exocyst requirement for endocytic traffic directed toward the apical and basolateral poles of polarized MDCK cells."
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"Functions of adaptor protein (AP)-3 and AP-1 in tyrosinase sorting from endosomes to melanosomes."
Author(s): Theos AC, Tenza D, Martina JA, Hurbain I, Peden AA, Sviderskaya EV, Stewart A, Robinson MS, Bennett DC, Cutler DF, Bonifacino JS, Marks MS, Raposo G
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Human / 1:250
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Mouse / Not Cited
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Not Applicable / Not Cited

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Human / 1:500

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"Trafficking of the Menkes copper transporter ATP7A is regulated by clathrin-, AP-2-, AP-1-, and Rab22-dependent steps."
Author(s): Holloway ZG,Velayos-Baeza A,Howell GJ,Leveque C,Ponnambalam S,Sztul E,Monaco AP
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Dog / Not Cited

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Author(s): Osaki F,Matsui T,Hiragi S,Homma Y,Fukuda M
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Hamster / Not Cited

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Mouse / Not Cited

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Mouse / Not Cited

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Not Applicable / Not Cited

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Human / 1:500

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"An alternative transcript of the Alzheimer's disease risk gene SORL1 encodes a truncated receptor."
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Molecular biology of the cell (Jun 2013; 24: 1735)
"Trafficking of the Menkes copper transporter ATP7A is regulated by clathrin-, AP-2-, AP-1-, and Rab22-dependent steps."
Author(s): Holloway ZG,Velayos-Baeza A,Howell GJ,Leveque C,Ponnambalam S,Sztul E,Monaco AP
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Dog / Not Cited

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Hamster / Not Cited

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"The GDP-bound form of Arf6 is located at the plasma membrane."
Author(s): Macia E,Luton F,Partisani M,Cherfils J,Chardin P,Frances M
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Mouse / Not Cited

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Human / Not Cited

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Mouse / Not Cited

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Author(s): Chen J,Enns CA
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Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package insert(s) ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty period is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.
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**Human / Not Cited**

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**Human / 1:250**

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Author(s): Schweitzer JK, Burke EE, Goodson HV, D'Souza Schorey C

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**Human / 1:300**

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**Mouse / Not Cited**

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**Human / 1:5000**

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Author(s): Søreng K, Pankiv S, Bergmark C, Haugsten EM, Dahl AK, de la Ballina LR, Yamamoto A, Lystad AH, Simonsen A

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Author(s): Williams R, Schlüter T, Roberts MS, Knauth P, Bohnensack R, Cutler DF

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**Rat / 1:200**

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**Species / Dilution**

**Summary**

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**Mouse / 1:250**

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**Species / Dilution**

**Summary**

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PloS one (Dec 2013; 8: )

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<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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**Summary**

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Author(s):Priest H,McDonough S,Erb H,Daddona J,Stokol T
PubMed Article URL:http://dx.doi.org/10.1177/0300985810377074

13-6800 was used in immunohistochemistry - frozen section and western blot to examine the expression of iron transport proteins in the developing rat brain

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Human / Not Cited

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Yeast / 1:100

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Rat / 1:1000

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**Human / Not Cited**

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**Human / Not Cited**

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**Human / 1:1000**

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**Human / Not Cited**

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**Mouse / 1:500**

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**Mouse / Not Cited**

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**Rat / Not Cited**

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<td>Mouse</td>
<td>Not Cited</td>
<td>13-6800 was used in western blot to describe methods for the assignment of immunoreactive spots in two-dimensional protein patterns.</td>
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<td>13-6800 was used in western blot to examine lipid rafts in the dendrites of cultured hippocampal neurons.</td>
<td>The Journal of neuroscience : the official journal of the Society for Neuroscience (Apr 2003; 23: 3262)</td>
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<td>13-6800 was used in western blot to examine the role of deubiquitylating enzymes in cholesterol metabolism.</td>
<td>&quot;Deubiquitylase Inhibition Reveals Liver X Receptor-independent Transcriptional Regulation of the E3 Ubiquitin Ligase IDOL and Lipoprotein Uptake.&quot;</td>
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<td>&quot;Bleomycin treatment of A549 human lung cancer cells results in association of MGr1-Ag and caveolin-1 in lipid rafts.&quot;</td>
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<td>13-6800 was used in western blot to elucidate the regulation of the endocytic pathways by ARF6.</td>
<td>&quot;Distribution of ARF6 between membrane and cytosol is regulated by its GTPase cycle.&quot;</td>
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<td>13-6800 was used in western blot to investigate the transfer of endocytosed EGFR from endosomes to lysosomes.</td>
<td>&quot;Sorting of ligand-activated epidermal growth factor receptor to lysosomes requires its actin-binding domain.&quot;</td>
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<td>Author(s):Vettermann C,Jaëck HM,Mielenz D</td>
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<td>&quot;Tetraspanin15 regulates cellular trafficking and activity of the ectodomain sheddase ADAM10.&quot;</td>
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<td>&quot;Afipia felis induces uptake by macrophages directly into a nonendocytic compartment.&quot;</td>
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<td>Author(s):Lührmann A,Streker K,Chüttfort A,Daniels JJ,Haas A</td>
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<td>&quot;Lipid rafts in the maintenance of synapses, dendritic spines, and surface AMPA receptor stability.&quot;</td>
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<td>Author(s):Hering H,Lin CC,Sheng M</td>
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<td>Author(s):Stoorvogel W,Kerstens S,Fritzsche I,den Hartigh JC,Oud R,van der Heyden MA,Voortman J,van Bergen en Henegouwen PM</td>
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<td>&quot;Co-trafficking of HFE, a nonclassical major histocompatibility complex class I protein, with the transferrin receptor implies a role in intracellular iron regulation.&quot; Author(s): Gross CN, Irinkin A, Feder JN, Enns CA PubMed Article URL: <a href="http://dx.doi.org/10.1074/jbc.273.34.22068">http://dx.doi.org/10.1074/jbc.273.34.22068</a></td>
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Author(s): Le Borgne R, Hofflack B

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**Mouse / Not Cited**

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"Mutant torsinA, responsible for early-onset torsion dystonia, forms membrane inclusions in cultured neural cells."

Author(s): Hewett J, Gonzalez-Agosti C, Slater D, Ziefer P, Li S, Bergeron D, Jacoby DJ, Ozelius LJ, Ramesh V, Breakefield XO

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Author(s): Patrushev N, Seidel-Rogol B, Salazar G

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13-6800 was used in western blot to identify 4-hydroxynonenal as a hemozoin-generated inhibitory molecule and describe molecular targets of 4-hydroxynonenal in erythroid progenitors


13-6800 was used in immunohistochemistry (paraaffin) to report that AHSP is better than CD71 and CD235a for detecting normal and neoplastic nucleated erythroid precursors.

Human / 1:1600


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Non-human primate / Not Cited


13-6800 was used in western blot to report a molecular and functional association of mGl1alpha receptor with caveolins.

Hamster / 1 µg/ml


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Human / 1:500


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Human / 1:1000

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Human / Not Cited


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Mouse / Not Cited


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<td><a href="http://dx.doi.org/10.1008/jcb.201005140">http://dx.doi.org/10.1008/jcb.201005140</a></td>
<td>Bruurs LJ, Donker L, Zwakenberg S, Zwartkruis FJ, Begthel H, Knisely AS, Posthuma G, van de Graaf SF, Paulusma CC, Bos JL</td>
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<td>13-6800 was used in immunohistochemistry to examine the role of Cdc42 in enterocyte polarization.</td>
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<td>CC, Bos JL</td>
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Molecular biology of the cell (Jun 2001; 12: 1737)
"The human cytomegalovirus US28 protein is located in endocytic vesicles and undergoes constitutive endocytosis and recycling."

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2 ELISA References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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