**Alexa Fluor 488 Polyclonal Antibody**

**Catalog Number** A-11094

**Species Reactivity**
- **Species Reactivity**: Chemical
- **Published species**: Dog, Fruit fly, Chemical, Mouse, Human, Not Applicable

**Tested Applications**
- **Flow Cytometry (Flow)**: Assay-dependent
- **Immunohistochemistry (IHC)**: Assay-dependent
- **Immunocytochemistry (ICC/IF)**: Assay-dependent

**Published Applications**
- **Western Blot (WB)**: See 8 publications below
- **Immunohistochemistry (IHC)**: See 24 publications below
- **Flow Cytometry (Flow)**: See 10 publications below
- **Immunocytochemistry (ICC/IF)**: See 42 publications below
- **Immunohistochemistry (Paraffin) (IHC (P))**: See 2 publications below
- **ELISA (ELISA)**: See 2 publications below
- **Immunoprecipitation (IP)**: See 4 publications below
- **Miscellaneous PubMed (Misc)**: See 6 publications below
- **Neutralization (Neu)**: See 2 publications below
- **In vitro Assay (IV)**: See 1 publications below

**Background/Target Information**

Anti-fluorescent dye antibodies recognize specific fluorophores and, in most cases, quench their fluorescence. Thus many anti-dye antibodies, including those that recognize fluorescein, can serve as cell-impermeant probes for determining whether fluorescent dye-conjugated ligands, proteins, bacteria or other biomolecules have been internalized by endocytic or pinocytic processes. The Alexa Fluor® 488 dye possesses near identical spectral properties and quantum yield to fluorescein isothiocyanate (FITC), but produces brighter, more photostable conjugates. These conjugates are used for imaging and other applications requiring increased sensitivity without being overly impacted by environmental factors.

PubMed References For Alexa Fluor 488 Polyclonal Antibody

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical / 1:10,000</td>
<td>A-11094 was used in Western Blotting to suggest that the 1 subunit adhesion is modulated by the expression levels of the Na+,K+-ATPase at the plasma membrane, which is regulated by ouabain.</td>
</tr>
</tbody>
</table>
| Chemical / Not Cited | International journal of molecular sciences (Apr 2019; 20: )
"Ouabain Enhances Cell-Cell Adhesion Mediated by <sub>1</sub> Subunits of the Na<sup>+</sup><sub>-</sub>Plus, K<sup>+</sup>-Plus ATPase in CHO Fibroblasts." 
Author(s): Vilchis-Nestor CA, Roldán ML, Leonardi A, Navea JG, Padilla-Benavides T, Shoshani L
PubMed Article URL: http://dx.doi.org/10.3390/ijms20092111 |
| Chemical / Not Cited | A-11094 was used in Immunohistochemistry (Paraffin) to demonstrate an evolutionarily conserved role of autophagy in lamellar body maturation. |
| Chemical / 1:700 | A11094 was used in western blot to propose a role for KIDLIA in neurodevelopment and autism |
| Chemical / Not Cited | "The X-Linked Autism Protein KIAA2022/KIDLIA Regulates Neurite Outgrowth via N-Cadherin and -Catenin Signaling." 
Author(s): Gilbert J, Man HY
| Mouse / Not Cited | A-11094 was used in Western Blotting to indicate the role of glutamine in modulating MSC fate through cross-talk between mTOR complexes by identifying a critical switch in signaling and the importance of glutamine in modulating molecular cues (mTORC1/p-70S6K/mTORC2/RUNX2) that are involved in driving diabetes-induced bone adipogenesis and other secondary complications. |
| Chemical / Not Cited | "High glutamine suppresses osteogenesis through mTORC1-mediated inhibition of the mTORC2/473/RUNX2 axis." 
Author(s): Gayatri MB, Gajula NN, Chava S, Reddy ABM
PubMed Article URL: http://dx.doi.org/10.1038/s41420-022-01077-3 |
| Mouse / 1:500 | A-11094 was used in Western Blot to indicate that while MORs and DORs are expressed in single striatal cholinergic interneurons, the two receptors function independently. |
| Chemical / Not Cited | "ATR- and ATM-Mediated DNA Damage Response Is Dependent on Excision Repair Assembly during G1 but Not in S Phase of Cell Cycle." 
Author(s): Ray A, Blevins C, Wani G, Wani AA
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0159344 |
| Mouse / Not Cited | A-11094 was used in Western Blotting to indicate that mitoribosomal deregulation could represent an early event initiating mitochondrial dysfunction and serve as a primary driver of cellular senescence and an upstream regulator of shelterin-mediated telomere deprotection. |
| Mouse / Not Cited | "Mitochondrial Deregulation Drives Senescence via TP53-Mediated Telomere Deprotection." 
Author(s): Min S, Kwon SM, Hong J, Lee YK, Park TJ, Lim SB, Yoon G
PubMed Article URL: http://dx.doi.org/10.3390/cells11132079 |
A-11094 was used in Western Blot to provide new mechanistic insight for mitochondrial deregulation in HCC and present MRPS31 as a novel biomarker of HCC malignancy.

Cell death & disease (Nov 2021; 12: )
"MRPS31 loss is a key driver of mitochondrial deregulation and hepatocellular carcinoma aggressiveness."
Author(s):Min S, Lee YK, Hong J, Park TJ, Woo HG, Kwon SM, Yoon G
PubMed Article URL:http://dx.doi.org/10.1038/s41419-021-04370-8

**24 Immunohistochemistry References**

**Species / Dilution**

**Summary**

A-11094 was used in immunohistochemistry to report the role of a male-specific, duplicated copy of the anti-Müllerian hormone in the testicular development of Patagonian pejerrey.

Chemical / Not Cited

Proceedings of the National Academy of Sciences of the United States of America (Feb 2012; 109: 2955)
"A Y-linked anti-Müllerian hormone duplication takes over a critical role in sex determination."
Author(s):Hattori RS,Murai Y,Oura M,Masuda S,Majhi SK,Sakamoto T,Fernandino JI,Somoza GM,Yokota M,Strüssmann CA
PubMed Article URL:http://dx.doi.org/10.1073/pnas.1018392109

A-11094 was used in Immunohistochemistry-immunofluorescence to study the neuronal connections of direct and indirect pathways for stable value memory in caudal basal ganglia.

Chemical / Not Cited

The European journal of neuroscience (Mar 2019; 49: 712)
"Neuronal connections of direct and indirect pathways for stable value memory in caudal basal ganglia."
Author(s):Amrita H,Kim HF,Smith MK,Gopai A,Hikosaka O
PubMed Article URL:http://dx.doi.org/10.1111/ejn.13936

**Chemical / 1:500**

The European journal of neuroscience (Mar 2019; 49: 712)
"Neuronal connections of direct and indirect pathways for stable value memory in caudal basal ganglia."
Author(s):Amrita H,Kim HF,Smith MK,Gopai A,Hikosaka O
PubMed Article URL:http://dx.doi.org/10.1111/ejn.13936

**Fruit fly / 1:500**

Biology open (May 2022; 11:)
"midline represses Dpp signaling and target gene expression in Drosophila ventral leg development."
Author(s):Phillips LA,Atienza ML,Ryu JR,Svendsen PC,Kelemen LK,Brook WJ
PubMed Article URL:http://dx.doi.org/10.1242/bio.059206

A-11094 was used in Immunohistochemistry-immunofluorescence to demonstrate the anorexigenic but anabolic effects of cocaine- and amphetamine-regulated transcript upon Arc neuron activation, and the orexigenic but catabolic effects upon lateral hypothalamus-neuron activation.

**Chemical / 1:500**

eLife (Aug 2018; 7:)
"Accurate nucleus and lateral hypothalamic CART neurons in the mouse brain exert opposing effects on energy expenditure."
PubMed Article URL:http://dx.doi.org/10.7554/eLife.36494

A-11094 was used in Immunohistochemistry-immunofluorescence to find that the gut microbiome modulates gut-extrinsic sympathetic neurons: microbiota depletion leads to increased expression of the neuronal transcription factor cFos, and colonization of germ-free mice with bacteria that produce short-chain fatty acids suppresses cFos expression in the gut sympathetic ganglia.

**Chemical / 1:400**

Nature (Jul 2020; 583: 441)
"Microbiota modulate sympathetic neurons via a gut-brain circuit."
PubMed Article URL:http://dx.doi.org/10.1038/s41586-020-2474-7

A-11094 was used in Immunohistochemistry-immunofluorescence to examine the effects of rat lateral habenula lesions on the hippocampal oscillatory activity associated with the transition of brain states.

**Chemical / 1:2,000**

"The synchronous activity of lateral habenular neurons is essential for regulating hippocampal theta oscillation."
Author(s):Aizawa H,Yanagihara S,Kobayashi M,Nishizaka K,Hara K,Takahashi T,Fujita H,Tikawa Y,Murayama Y,Yokomizo H
PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.4369-12.2013

A-11094 was used in Immunohistochemistry-immunofluorescence to study the neuronal connections of direct and indirect pathways for stable value memory in caudal basal ganglia.

**Chemical / 1:200**

The journal of histochimistry and cytochemistry : official journal of the Histochemistry Society (Jul 2006; 54: 817)
"Use of anti-fluorophore antibody to achieve high-sensitivity immunolocalizations of transporters and ion channels."
Author(s):Coleman RA,Liu J, Wade JB
PubMed Article URL:http://dx.doi.org/10.1369/jhc.6A6929.2006

A-11094 was used in immunohistochemistry to study the corticobulbar projection to the hypoglossal nucleus in the non-human primate.

Chemical / 1:5000

The Journal of comparative neurology (Oct 2014; 522: 3456)
"Cortical innervation of the hypoglossal nucleus in the non-human primate (Macaca mulatta)."
Author(s):Morecraft RJ,Stillwell-Morecraft KS,Solon-Cline KM,Ge J,Darling WG
PubMed Article URL:http://dx.doi.org/10.1002/cne.23614

A-11094 was used in immunohistochemistry to investigate early cell fate determinants in preimplantation mouse embryos using a loss- and gain-of-function approach

Chemical / 1:500

Journal of visualized experiments : JoVE (Jun 2016; : )
"Loss- and Gain-of-function Approach to Investigate Early Cell Fate Determinants in Preimplantation Mouse Embryos."
Author(s):Lee JH,Cho YI,Choi SS,Kim HW,Min CK,Lee SJ
PubMed Article URL:http://dx.doi.org/10.3791/53696

A-11094 was used in Immunohistochemistry to suggest an SC-posterior thalamus-BG-SC subcortical loop circuit that encodes the historical value, enabling a quick automatic gaze by bypassing the visual cortex.

Chemical / Not Cited

"Long-Term Value Memory in the Primate Posterior Thalamus for Fast Automatic Action."
Author(s):Kim HF,Griggs WS,Hikosaka O
PubMed Article URL:http://dx.doi.org/10.1016/j.cub.2020.05.047

A-11094 was used in immunohistochemistry to study the neural transmission to GABAergic neurons in the ventral tegmental area from the bed nucleus of the stria terminalis.

Chemical / Not Cited

The European journal of neuroscience (Jun 2014; 39: 1796)
"GABAergic neurons in the ventral tegmental area receive dual GABA/enkephalin-mediated inhibitory inputs from the bed nucleus of the stria terminalis."
Author(s):Kudo T,Konno K,Uchigashima M,Yanagawa Y,Sora I,Minami M,Watanabe M
PubMed Article URL:http://dx.doi.org/10.1111/ejn.12503

A-11094 was used in Immunohistochemistry-immunofluorescence to investigate the specific neuronal somatic and axonal damaging consequences of elevated intercranial pressure, independent of its impact on cerebral perfusion pressure.

Chemical / 1:5,000

"Increased intracranial pressure after diffuse traumatic brain injury exacerbates neuronal somatic membrane poration but not axonal injury: evidence for primary intracranial pressure-induced neuronal perturbation."
Author(s):Lafrenaye AD,McGinn MJ,Povlishock JT
PubMed Article URL:http://dx.doi.org/10.1038/jcblm.2012.95

A-11094 was used in immunohistochemistry to evaluate the dynamics of oil bodies in living Arabidopsis thaliana embryos at different stages of development.

Chemical / Not Cited

Plant physiology (Apr 2014; 164: 1866)
"Specialization of oleosins in oil body dynamics during seed development in Arabidopsis seeds."
PubMed Article URL:http://dx.doi.org/10.1111/pp.11235

A-11094 was used in Immunohistochemistry to suggest the hypothesis that the RSC and hippocampus require each other to preserve fear memories and may provide a novel therapeutic avenue to attenuate remote traumatic memories in patients with post-traumatic stress disorder.

Mouse / 1:200

The Journal of neuroscience : the official journal of the Society for Neuroscience (Feb 2022; 42: 877)
"Distinct Contribution of Granular and Agranular Subdivisions of the Retrosplenial Cortex to Remote Contextual Fear Memory Retrieval."
Author(s):Tsai TC,Yu TH,Hung YC,Fong LI,Hsu KS
PubMed Article URL:http://dx.doi.org/10.1523/JNEUROSCI.1303-21.2021

A-11094 was used in Immunohistochemistry-immunofluorescence to elucidate that N-Myc downstream regulated gene 1 was highly upregulated by Kaposis’s sarcoma herpesvirus in proliferating cells.

Chemical / 1:1,000

PLoS pathogens (Feb 2019; 15: )
"NDRG1 facilitates the replication and persistence of Kaposis’s sarcoma-associated herpesvirus by interacting with the DNA polymerase clamp PCNA."
PubMed Article URL:http://dx.doi.org/10.1371/journal.ppat.1007628


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 documentations, specifications and/or accompanying package inserts ("Documentation"). Any 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 subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. A-11094 was used in immunohistochemistry to study the corticobulbar projection to the hypoglossal nucleus in the non-human primate.
A-11094 was used in Immunohistochemistry-immunofluorescence to provide insight into the cause of cardiorespiratory dysfunction in Huntington's disease and identify a potentially novel therapeutic target.

**Chemical / Not Cited**

JCI insight (Oct 2020; 5):

"Role of defective calcium regulation in cardiorespiratory dysfunction in Huntington’s disease."


PubMed Article URL: http://dx.doi.org/10.1172/jci.insight.140614

A-11094 was used in Immunohistochemistry-immunofluorescence to study how shifting intracellular cAMP levels controls the polarity of microglial responses to changes in brain homeostasis and alters the scale of immunosurveillance.

**Chemical / 1:500**

Cell reports (Jun 2019; 27: 2895)

"Nanoscale Surveillance of the Brain by Microglia via cAMP-Regulated Filopodia."


PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2019.05.010

A-11094 was used in Immunohistochemistry-immunofluorescence to show that in male rats that can differentiate between a new tone and a threatening one, the selective optogenetic inhibition of Te1 axon terminals into the prelimbic cortex shifted discrimination to fear generalization.

**Chemical / 1:400**

The Journal of neuroscience : the official journal of the Society for Neuroscience (Sep 2018; 38: 8313)

"Coherent Activity between the Prelimbic and Auditory Cortex in the Slow-Gamma Band Underlies Fear Discrimination."

Author(s): Concina G, Cambiaghi M, Renna A, Sacchetti B

PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.0540-18.2018

A-11094 was used in Immunohistochemistry to demonstrate the mechanism by which royal honeybee jelly facilitates RNA transfer between honeybees.

**Chemical / Not Cited**

Science advances (Oct 2020; 6: )

"Injectable, photoresponsive hydrogels for delivering neuroprotective proteins enabled by metal-directed protein assembly."


PubMed Article URL: http://dx.doi.org/10.1126/sciadv.abc4824

A-11094 was used in Immunohistochemistry to present a simple approach for creating injectable, photoresponsive hydrogels via metal-directed assembly of His6-tagged proteins.

**Chemical / Not Cited**

Molecular cell (May 2019; 74: 598)

“A Secreted RNA Binding Protein Forms RNA-Stabilizing Granules in the Honeybee Royal Jelly.”

Author(s): Masi D, Navarro IC, Boncristiani H, Seilly DJ, Rudolph KLM, Sapetschnig A, Lin CC, Ladbury JE, Evans JD, Heeney JL, Miska EA

PubMed Article URL: http://dx.doi.org/10.1016/j.molcel.2019.03.010

A-11094 was used in Immunohistochemistry-immunofluorescence to describe a method that should address several open questions about the fate and function of COP1 vesicles in vivo.

**Chemical / Not Cited**

Traffic (Copenhagen, Denmark) (Aug 2009; 10: 994)

"Following the fate in vivo of COP1 vesicles generated in vitro."


PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0854.2009.00934.x

A-11094 was used in Immunohistochemistry-immunofluorescence to show that cellular metabolism can regulate integrin rigidity-sensing via the sphingolipid metabolic pathway controlled by the amino acid transporter and integrin coreceptor CD88c.

**Chemical / 1:250**

Nature communications (Nov 2018; 9:)

"Cell metabolism regulates integrin mechanosensing via an SLC3A2-dependent sphingolipid biosynthesis pathway."

Author(s): Boulter E, Estrach S, Tissot FS, Henrich ML, Tosello L, Caillaleau L, de la Ballina LR, Pisano S, Gavín AC, Féral CC

PubMed Article URL: http://dx.doi.org/10.1038/s41467-018-07268-w


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A-11094 was used in Immunohistochemistry to develop NOTCH3 antibody drug conjugates for use in targeting NOTCH3-dependent tumours.

**Chemical / Not Cited**

Cell reports. Medicine (May 2021; 2: )

"NOTCH3-targeted antibody drug conjugates regress tumors by inducing apoptosis in receptor cells and through transendocytosis into ligand cells."


PubMed Article URL: http://dx.doi.org/10.1016/j.xcrm.2021.100279

A-11094 was used in Immunohistochemistry to provide insights into the toxicity of frataxin overexpression that should be considered in the development of a gene therapy approach for Friedrich's ataxia.

**Mouse / Not Cited**

Molecular therapy. Methods & clinical development (Mar 2022; 24; 367)

"<i>In vivo</i> overexpression of frataxin causes toxicity mediated by iron-sulfur cluster deficiency."


PubMed Article URL: http://dx.doi.org/10.1016/j.omtm.2022.02.002

### 10 Flow Cytometry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>A-11094 was used in Flow Cytometry to employ symmetrical bispecific parental antibodies of mAb2 format, which feature a novel antigen binding site in the CH3 domains, and engineered them with a minimal number of point mutations to guide the formation of a controlled Fab-arm exchanged trispecific antibody at a high yield after reduction and re-oxidation.</td>
</tr>
</tbody>
</table>
| **Chemical / Not Cited** | Biological chemistry (Apr 2022; 403: 509)

"Trispecific antibodies produced from mAb-supp2 pairs by controlled Fab-arm exchange."

Author(s): Natalie V, Stadlmayr G, Benedetti F, Stadlbauer K, Rüker F, Wozniak-Knopp G

PubMed Article URL: http://dx.doi.org/10.1515/hisz-2021-0376

| **Mouse / Not Cited** | A-11094 was used in Flow Cytometry to exploit the use of a human serum albumin scaffold, AlbuCORE, for the design of multispecific biologics. |
| **Chemical / Not Cited** | mAbs (Jul 2021; 12: )

"AlbuCORE: an albumin-based molecular scaffold for multivalent biologics design."


PubMed Article URL: http://dx.doi.org/10.1080/19420862.2020.1802188

| **Chemical / Not Cited** | A-11094 was used in Flow Cytometry to identify endocytic motifs through a new screen |
| **Human / Not Cited** | Traffic (Copenhagen, Denmark) (Jun 2010; 11: 843)

"A screen for endocytic motifs."

Author(s): Kokiz P, Francis RW, Seaman MN, Robinson MS

PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0854.2010.01056.x

| **Chemical / Not Cited** | A-11094 was used in Flow Cytometry to analyze electrostatic exchange from serglycin to target by granzyme B as a novel mechanism for protein delivery |
| **Chemical / Not Cited** | The Journal of biological chemistry (May 2005; 280: 20752)

"A novel mechanism for protein delivery: granzyme B undergoes electrostatic exchange from serglycin to target cells."


PubMed Article URL: http://dx.doi.org/10.1074/jbc.M501181200

A-11094 was used in flow cytometry to investigate ubiquitination of insulin-like growth factor I receptor

The Journal of biological chemistry (Dec 2011; 286: 41852)
"Polyubiquitination of insulin-like growth factor I receptor (IGF-IR) activation loop promotes antibody-induced receptor internalization and down-regulation."
Author(s):Mao Y,Shang Y,Pham VC,Ernst JA,Lill JR,Scales SJ,Zha J
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M111.288514

A-11094 was used in flow cytometry to assess repair of wounded cells and muscle fibers due to caveolae internalization

eLife (Sep 2013; 2: )
"Caveolae internalization repairs wounded cells and muscle fibers."
PubMed Article URL:http://dx.doi.org/10.7554/eLife.00926

A-11094 was used in flow cytometry to assess the direct uptake of biotinylated cargo into mammalian cells by a TAT-streptavidin fusion protein

Nature communications (Feb 2019; 10: )
"Selective hematopoietic stem cell ablation using CD117-antibody-drug-conjugates enables safe and effective transfection with immunity preservation."
PubMed Article URL:http://dx.doi.org/10.1038/s41467-018-08201-x

A-11094 was used in Flow Cytometry to study the use of a CD117-antibody-drug-conjugate to deplete host hematopoietic stem cells prior to hematopoietic stem cell transplantation.

Nature communications (Feb 2019; 10: )
"Caveolae internalization repairs wounded cells and muscle fibers."
PubMed Article URL:http://dx.doi.org/10.7554/eLife.00926

A-11094 was used in Flow Cytometry/Cell sorting to study the use of a CD117-antibody-drug-conjugate to deplete host hematopoietic stem cells prior to hematopoietic stem cell transplantation.

Nature communications (Feb 2019; 10: )
"Methylation of Salmonella Typhimurium flagella promotes bacterial adhesion and host cell invasion."
PubMed Article URL:http://dx.doi.org/10.1038/s41467-018-08201-x

A-11094 was used in Immunocytochemistry to demonstrate that phosphorylation signals may differentially control cell surface density of GPR15 through endocytosis.

A-11094 was used in Flow Cytometry to demonstrate that phosphorylation signals may differentially control cell surface density of GPR15 through endocytosis.

Molecular biology of the cell (Aug 2017; 28: 2267)
"Differential phosphorylation signals control endocytosis of GPR15."
Author(s):Okamoto Y,Shikano S
PubMed Article URL:http://dx.doi.org/10.1016/j.mib.2016.09.0627

42 Immunocytochemistry References

Species / Dilution Summary

Chemical / 25 µg/ml A-11094 was used in Immunocytochemistry-immunofluorescence to demonstrate that FliI-dependent methylation of flagella might represent a general mechanism facilitating adhesion to hydrophobic host cell surfaces in a broad range of bacterial species.

Chemical / Not Cited A-11094 was used in Immunocytochemistry to study the entry route and postendocytic sorting of ErbB2 upon geldanamycin stimulation.

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Chemical / 1:1000 A-11094 was used in Immunocytochemistry to study the entry route and postendocytic sorting of ErbB2 upon geldanamycin stimulation.

Chemical / Not Cited A-11094 was used in Immunocytochemistry to study the entry route and postendocytic sorting of ErbB2 upon geldanamycin stimulation.

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A-11094 was used in immunocytochemistry to report a new strategy to phenotypically profile the human genome with respect to transferrin and epidermal growth factor endocytosis.

**Chemical / Not Cited**

Nature (Mar 2010; 464: 243)

"Systems survey of endocytosis by multiparametric image analysis."


PubMed Article URL: http://dx.doi.org/10.1038/nature08779

A-11094 was used in Immunocytochemistry-immunofluorescence to describe a series of genetically encoded reporters that allow the initiation of clathrin-mediated endocytosis on demand.

**Chemical / 1:500**

The Journal of cell biology (Dec 2017; 216: 4351)

"New tools for "hot-wiring" clathrin-mediated endocytosis with temporal and spatial precision."

Author(s): Wood LA, Larocque G, Clarke NI, Sarkar S, Royle SJ

PubMed Article URL: http://dx.doi.org/10.1083/jcb.201702188

A-11094 was used in immunocytochemistry to assess the axon initial segment cytoskeleton architecture in mature and developing hippocampal neurons.

**Chemical / Not Cited**

The Journal of cell biology (Apr 2014; 205: 67)

"Axon initial segment cytoskeleton comprises a multiprotein submembranous coat containing sparse actin filaments."

Author(s): Jones SL, Korobova F, Svitkina T

PubMed Article URL: http://dx.doi.org/10.1083/jcb.201401045

A-11094 was used in immunocytochemistry to examine the role of endogenous nitric oxide signaling in neuronal growth and synaptic remodeling after nerve injury.

**Chemical / 1:400**


"Nitric oxide synthesis and cGMP production is important for neurite growth and synapse remodeling after axotomy."

Author(s): Cooke RM, Mistry R, Challiss RA, Straub VA

PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.3659-12.2013

A-11094 was used in Immunocytochemistry-immunofluorescence to describe a protocol to generate senescent cells from the mouse hepatic cell line, AML12.

**Chemical / 1:200**

STAR protocols (Sep 2020; 1: )

"Protocol to Generate Senescent Cells from the Mouse Hepatic Cell Line AML12 to Study Hepatic Aging."

Author(s): Tripathi M, Yen PM, Singh BK

PubMed Article URL: http://dx.doi.org/10.1016/j.xpro.2020.100064

A-11094 was used in Immunocytochemistry-immunofluorescence to identify c-Jun N-terminal kinase (JNK)-interacting protein 1-mediated JNK activation as a novel molecular pathway that negatively regulates NMDAR-dependent synaptic plasticity and memory.

**Chemical / 1:200**

The Journal of neuroscience: the official journal of the Society for Neuroscience (Apr 2018; 38: 3708)

"JIP1-Mediated JNK Activation Negatively Regulates Synaptic Plasticity and Spatial Memory."


PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.1913-17.2018

A-11094 was used in Immunocytochemistry to examine the protein levels of key cell cycle related proteins involved in regulating drug sensitivity to better understand the molecular mechanisms underlying the acquisition of drug resistance in breast cancer cells.

**Human / 1:1000**

Nature communications (Sep 2021; 12: )

"Inhibition of CK1 potentiates the therapeutic efficacy of CDK4/6 inhibitor in breast cancer."


PubMed Article URL: http://dx.doi.org/10.1038/s41467-021-25700-6

A-11094 was used in immunocytochemistry to create and characterize novel gelolin immunotoxins.

**Chemical / Not Cited**

The Journal of biological chemistry (Feb 2011; 286: 4165)

"Convergent potency of internalized gelolin immunotoxins across varied cell lines, antigens, and targeting moieties."

Author(s): Pirie CM, Hackel BJ, Rosenblum MG, Wittlup KD

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M110.186973
A-11094 was used in immunocytochemistry to assess modulation of P2X2/3 and P2X3 receptors via monoclonal antibodies.

The Journal of biological chemistry (Jun 2016; 291: 12254)
"Modulation of P2X2 and P2X3 Receptors by Monoclonal Antibodies."
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M116.722330

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Chemical / Not Cited


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Chemical / 1:200


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Human / Not Cited


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Published figure using Alexa Fluor 488 polyclonal antibody (Product # A-11094) in Miscellaneous

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Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61015 USA

thermofisher.com/contactus
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**Summary**

**Species / Dilution**

**Summary**

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#### Species / Dilution

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Chemical / 1:67

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Methods in molecular biology (Clifton, N.J.) (Nov 2011; 777: 117)

"Preparation of dual-color polarity-marked fluorescent microtubule seeds."

Author(s): Katsuki M, Muto E, Cross RA

PubMed Article URL: http://dx.doi.org/10.1007/978-1-61779-252-6_9

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Chemical / 1:67

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**1 In vitro Assay References**

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