Transferrin Receptor Monoclonal Antibody (H68.4)

**Product Details**

- **Size**: 100 µg
- **Species Reactivity**: Chicken, Hamster, Human, Mouse, Rat
- **Published Species**: Rat, Pig, Yeast, Non-human primate, Virus, Insect, Mammal, Hamster, Bovine, Cat, Zebrafish, Mouse, Human, Horse, Dog, C. elegans
- **Host/Isotype**: Mouse / IgG1
- **Class**: Monoclonal
- **Type**: Antibody
- **Clone**: H68.4
- **Conjugate**: Unconjugated
- **Immunogen**: Recombinant human transferrin receptor.
- **Form**: Liquid
- **Concentration**: 0.5 mg/mL
- **Purification**: Affinity chromatography
- **Storage buffer**: PBS, pH 7.4
- **Contains**: 0.1% sodium azide
- **Storage conditions**: -20°C
- **RRID**: AB_2533029

**Applications**

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<th>Application</th>
<th>Tested Dilution</th>
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<td>Western Blot (WB)</td>
<td>0.5 µg/mL</td>
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<td>18 Publications</td>
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<td>Assay-dependent</td>
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<td>Immunohistochemistry (Frozen) (IHC (F))</td>
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Product Specific Information
H68.4 is specific to residues 3-28 of the human transferrin receptor (TfR) tail.

Product Images For Transferrin Receptor Monoclonal Antibody (H68.4)

Transferrin Receptor Antibody (13-6800) 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 T-47D (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. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

Transferrin Receptor Antibody (13-6800)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Transferrin Receptor siRNA and loss of signal was observed in Western Blot using Anti-Transferrin Receptor monoclonal Antibody (Product # 13-6800). {KD}

Transferrin Receptor Antibody (13-6800)
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}

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**Western Blot (279)**

**Life science alliance**

**The ADAM17 sheddase complex regulator iTAP/Frmd8 modulates inflammation and tumor growth.**

"13-6800 was used in Western Blotting to suggest that pharmacological intervention at the level of iTAP/Frmd8 may be beneficial to target ADAM17 activity in specific compartments during chronic inflammatory diseases or cancer, while avoiding the collateral impact on the vital functions associated with the widespread inhibition of ADAM17."

Authors: Badenes M, Burbridge E, Oikonomidi I, Amin A, de Carvalho É, Kosack L, Mariano C, Domingos P, Faisca P, Adrain C

**Year** 2023  
**Species** Mouse  
**Dilution** 1:1000

**Molecular neurobiology**

**The US9-Derived Protein gPTB9TM Modulates APP Processing Without Targeting Secretase Activities.**

"13-6800 was used in Western Blotting to introduce a new method to limit APP misprocessing and its cellular consequences without directly targeting secretase activity, offering a novel tool to reduce cognitive decline in pathologies such as Alzheimer's disease and HIV-associated neurocognitive disorders."

Authors: Brandimarti R, Irollo E, Meucci O

**Year** 2023  
**Species** Rat

**Immunohistochemistry (18)**

**Regenerative therapy**

**Usefulness of a humanized tricellular static transwell blood-brain barrier model as a microphysiological system for drug development applications. - A case study based on the benchmark evaluations of blood-brain barrier microphysiological system.**

"13-6800 was used in Immunohistochemistry-immunofluorescence to provide the SOPs with the flow chart including entire procedure and how to apply each SOP."

Authors: Nakayama-Kitamura K, Shigemoto-Mogami Y, Toyoda H, Mihara I, Moriguchi H, Naraoka H, Furihata T, Ishida S, Sato K

**Year** 2023  
**Species** Human  
**Dilution** 1:200

**Neuro-oncology advances**

**Efficacy of ruthenium coordination complex-based Rutherrin in a preclinical rat glioblastoma model.**

"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."


**Year** 2022  
**Species** Rat  
**Dilution** 1:300

**More applications with references on thermofisher.com**

- **IHC (P) (8)**
- **IHC (F) (2)**
- **ICC/IF (94)**
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