

Transferrin Receptor Monoclonal Antibody (H68.4)

Product Details	
Size	500 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_2533030

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5 µg/mL	279 Publications
Immunohistochemistry (IHC)	-	18 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	1:250	94 Publications
Flow Cytometry (Flow)	-	10 Publications
ELISA (ELISA)	Assay-dependent	2 Publications
Immunoprecipitation (IP)	Assay-dependent	16 Publications
Functional Assay (FN)	-	1 Publication
Control (Ctrl)	-	1 Publication
in situ PLA (PLA)	-	1 Publication
Immunomicroscopy (IM)	Assay-dependent	-
GST Pull Down (GPD)	-	1 Publication
Miscellaneous PubMed (Misc)	-	87 Publications

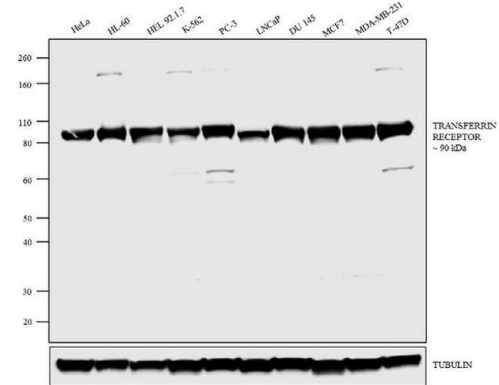
Product Specific Information

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

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

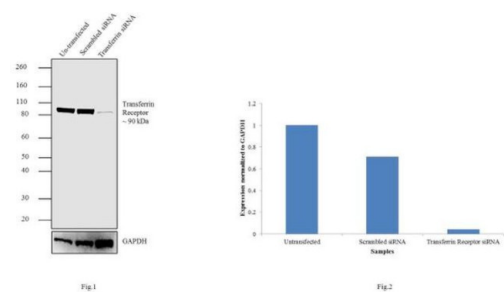
Transferrin Receptor Antibody (13-6890) in WB

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 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).



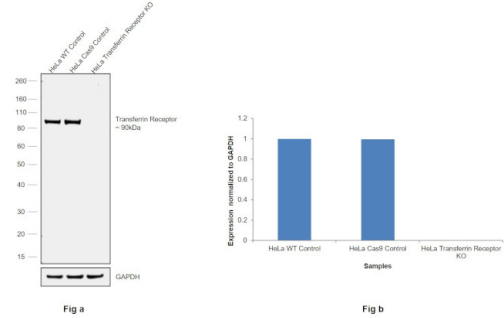
Transferrin Receptor Antibody (13-6890)

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 (13-6890)

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}



View more figures on thermofisher.com

520 References

Western Blot (279)

Journal of extracellular vesicles Efficient ultrafiltration-based protocol to deplete extracellular vesicles from fetal bovine serum. "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." Authors: Kornilov R,Puhka M,Mannerström B,Hiidenmaa H,Peltoniemi H,Siljander P,Seppänen-Kajjansinkko R,Kaur S	Year 2023 Species Human Dilution 1:1000
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Kidney Ischemia/Reperfusion Injury Induces Changes in the Drug
Transporter Expression at the Blood-Brain Barrier *in vivo* and *in vitro*.

"13-6800 was used in Western Blotting to creat an in vitro co-culture model based on human kidney cells of the proximal tubule (HK-2) and brain microvascular endothelial cells (BMEC) and use it to study the cellular mechanism of kidney and brain crosstalk in renal ischemia/reperfusion injury."

Authors: Burek M,Burmester S,Salvador E,Möller-Ehrlich K,Schneider R,Roewer N,Nagai M,Förster CY

Year
2023

Species
Mouse

Dilution
1:500

[View more WB references on thermofisher.com](#)

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."

Authors: Munegowda MA,Fisher C,Molehuis D,Foltz W,Roufaiel M,Bassan J,Nitz M,Mandel A,Lilge L

Year
2022

Species
Rat

Dilution
1:300

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

- IHC (P) (8)
- IHC (F) (2)
- ICC/IF (94)
- Flow (10)
- ELISA (2)
- IP (16)
- FN (1)
- Ctrl (1)
- PLA (1)
- GPD (1)
- Misc (87)

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