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Transferrin Receptor Monoclonal Antibody (H68.4)

Catalog Number **13-6890**

Product data sheet

Details	
Size	500 µg
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	H68.4
Immunogen	Recombinant human transferrin receptor.
Conjugate	Unconjugated
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

Species Reactivity	
Species reactivity	Chicken, Hamster, Human, Mouse, Rat
Published species	Dog, Yeast, Rat, Pig, Non-human primate, Hamster, Cat, Human, Mouse, Chicken, Not Applicable, Horse

Tested Applications	Dilution *
ELISA (ELISA)	1-5 µg/mL
Immunocytochemistry (ICC)	1:250
Immunofluorescence (IF)	1:250
Immunohistochemistry (IHC)	Assay Dependent
Immunomicroscopy (IM)	Assay Dependent
Immunoprecipitation (IP)	2-5 µg
Western Blot (WB)	1 µg/mL

Published Applications	
Western Blot (WB)	See 62 publications below
Immunocytochemistry (ICC)	See 28 publications below
Immunohistochemistry (Paraffin) (IHC (P))	See 3 publications below
Miscellaneous PubMed (MISC)	See 70 publications below
Flow Cytometry (Flow)	See 5 publications below
Immunoprecipitation (IP)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Mouse anti-CD71 (H68.4) antibody reacts with the N-terminal region of the human transferrin receptor. Due to the conserved amino acid sequences of the cytoplasmic tail among species, this antibody is able to cross-react with chicken, mouse and Chinese hamster CD71. Cross-reactivity has also been observed with rat adrenal pheochromocytoma (PC-12).

Background/Target Information

The human transferrin receptor (TR; CD71) is a homodimeric type II transmembrane glycoprotein consisting of two identical 95 kDa subunits covalently linked by intermolecular disulfide bonds in erythroid blood cell line and in activated leukocytes. CD71 has an extracellular domain of 671 amino acids, a single 28-residue transmembrane region, and a 61-residue N-terminal cytoplasmic domain. Expression of the receptor is limited on normal tissue, however, highly expressed on the surface of some tumors. CD71 is included in the class of ligand transport receptors which are internalized by clathrin-mediated endocytosis. An important function of the receptor is to bind the serum transport protein transferrin (TF; apotransferrin) and mediate the uptake of iron into the cell. Acidification of endosomes by vesicular membrane proton pumps leads to dissociation of iron ions, whereas transferrin (apotransferrin) remains associated with CD71 and recycles to the cell surface, where it is released upon exposure to normal pH. CD71 is also involved in uptake of non-transferrin bound iron. A growing area of research involves the use of monoclonal anti-CD71 antibodies to inhibit the uptake of iron and thus block tumor cell growth.

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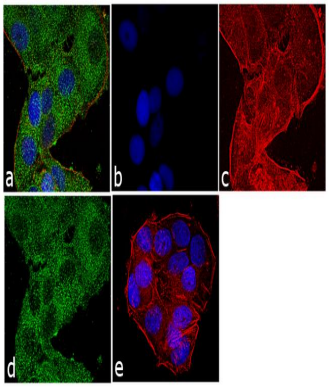
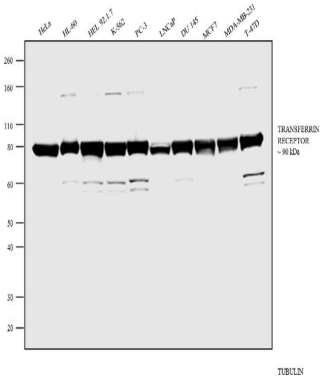
Product Images For Transferrin Receptor Monoclonal Antibody (H68.4)



Transferrin Receptor Antibody (13-6890) in IF

Immunofluorescence analysis of Transferrin Receptor Monoclonal Antibody (H68.4) was performed using70% 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 # 13-6890) 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

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 # 13-6890, 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 Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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PubMed References For Transferrin Receptor Monoclonal Antibody (H68.4)

62 Western Blot References

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Human / Not Cited	Current biology : CB (Jul 2014; 24: 1670) **"Retromer binding to FAM21 and the WASH complex is perturbed by the Parkinson disease-linked VPS35(D620N) mutation."** Author(s):McGough IJ,Steinberg F,Jia D,Barbuti PA,McMillan KJ,Heesom KJ,Whone AL,Caldwell MA,Billadeau DD,Rosen MK,Cullen PJ PubMed Article URL:http://dx.doi.org/10.1016/j.cub.2014.06.024
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5 Flow Cytometry References

Species / Dilution	Summary

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	13-6890 was used in flow cytometry and western blot to report that the human herpesvirus-7 U21 gene product interferes with natural killer cell recognition
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	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,Duflaut D,Beekman C,Blanc L,Fiucci G,Marine JC,Vidal M,Amson R,Telerman A PubMed Article URL:http://dx.doi.org/10.1038/cdd.2008.104
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1 Immunoprecipitation References

Species / Dilution	Summary
	13-6890 was used in immunoprecipitation and western blot to study the regulation and function of soluble beta2microglobulin-HFE monochain and transferrin receptor
Not Applicable / Not Cited	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.20015

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