Qty: 100 µg/200 µl

Mouse Anti-Human
Transferrin Receptor

Catalog No. 13-6800

Lot No. See product label

Mouse anti-Human Transferrin Receptor

FORM
This monoclonal antibody is supplied in 10 mM PBS, pH 7.4, containing 0.1% sodium azide (NaN_3) at a concentration of 0.5 mg/ml. The antibody was affinity purified from ascites raised in Balb/c mice.

CLONE: H68.4 **ISOTYPE:** IgG_1

FUSION PARTNER: SP2/0

IMMUNOGEN: Recombinant human transferrin receptor.

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

REACTIVITY
Due to conserved amino acid sequences in the the cytoplasmic tail, H68.4 is cross-reactive with chicken, mouse, rat, and Chinese hamster TfnrR.

USAGE
The dilutions below are only recommendations. Optimal concentrations of this antibody should be determined by the researcher for each specific application.

Application	Suggested Starting Concentration
ELISA[3]	0.1-1 µg/ml
Western Blotting[3-5,7,15,16]	1 µg/ml
Immunoprecipitation[3]	2-5 µg/IP rxn
IHC (fixed, paraffin-embedded tissue) [11]	1-5 µg/ml
Immunofluorescence[2,8,9,10,16]	1-5 µg/ml
Immunocytochemistry[16]	1-5 µg/ml
Immunodepletion[5]	---
Electronmicroscopy[6,14]	---
Immunogold-labeling[13]	---
Iron uptake research[12]	---

STORAGE
Store at 2-8°C for up to one month. Store at –20°C for long term storage. Avoid repeated freezing and thawing.

BACKGROUND
The human transferrin receptor (TfR) is a homodimeric type II membrane protein consisting of two identical 95 kDa subunits covalently linked by intermolecular disulfide bonds. The TfR has an extracellular domain of 671 amino acids, a single 28 residue transmembrane region and a 61 residue amino terminal cytoplasmic domain. Expression of the receptor is limited on normal tissue, however, highly expressed on the surface of some tumors. TfR is included in the class of ligand transport receptors which are internalized and clustered in coated pits. An important function of the receptor is to bind the serum transport protein transferrin (Tf) and mediate the uptake of iron into the cell. A growing area of research involves the use of monoclonal anti-TF receptor antibodies to inhibit the uptake of iron and thus block tumor cell growth.

(cont'd)

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RELATED PRODUCTS

Product	***Clone***	***Cat. No.***
Ms x Caveolin	Z034	03-6000
Rb x GDI	Poly	71-0300
Rab1A/1B	T29/33	71-5100
Rab1A/1B	T29/33	71-0400
Rab1A/1B	T29/33	71-5200
Rab1A/1B	T29/33	71-5300

Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

Conjugate	**ZyMAX™ Goat x Rabbit IgG (H+L)**	**ZyMAX™ Goat x Mouse IgG (H+L)**
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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