

Mouse anti-Transferrin Receptor (TR)

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Store at 2 to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 500 µg
Volume: 10 mM

Host/Class: Mouse IgG₁
Reactivity: Rat, mouse, human, chicken, and Chinese hamster

Product Description

The human transferrin receptor (TR) is a homodimeric type II membrane protein consisting of two identical 95 kDa subunits covalently linked by intermolecular disulfide bonds. The TR 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. TR 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. Mouse anti-Transferrin Receptor (clone: H68.4) antibody reacts with the N-terminus 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 TR. Cross reactivity has also been observed with rat adrenal pheochromocytoma (PC-12).

Product Specifications

Immunogen: Rec. Human TR
Clone/PAD: H68.4
Lot: See product label

Product Applications

Application	Concentration
ELISA	1-5 µg/mL
Immunoprecipitation	2-5 µg/IP reaction
Western Blotting	1 µg/mL

Storage and Handling

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

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage Buffer

Phosphate buffered saline (PBS), pH 7.4, containing 0.1% sodium azide.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

Safety Data Sheets (SDS)








Safety Data Sheets (SDSs) are available at www.lifetechnologies.com/support.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.lifetechnologies.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

For research use only. Not for use in diagnostic procedures.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License: Research Use Only

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