

Mouse anti-Human TFRC Monoclonal Antibody | anti-TFRC antibody

TFRC Antibody

CATALOG # AAA290644	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

TFRC; Monoclonal Antibody; TFRC Antibody; Transferrin receptor protein 1; TR; TfR; TfR1; Trfr; T9; p90; CD71; serum form; sTfR; anti-TFRC antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgM
Specificity	This TFRC antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 649-677 amino acids from human TFRC.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.
Sequence Length	760
Applicable Applications for anti-TFRC antibody	ELISA, WB (Western Blot)
Subtitle	Mouse Monoclonal Antibody (Mab)
Cellular Location	Cell membrane; Single-pass type II membrane protein. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Antigen Region	649-677 aa
Antigen Type	Synthetic Peptide
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

TFRC Antibody western blot analysis in WiDr cell line lysates (35µg/lane). This demonstrates the TFRC antibody detected the TFRC protein (arrow).



WB (Western Blot)

All lanes : Anti-CD71 Antibody (C-term) at 1:1000 dilution
Lane 1: HT-1080 whole cell lysate
Lane 2: Hela whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 85 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-TFRC antibody	Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). A second ligand, the heditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site.
Product Categories/Family for anti-TFRC antibody	Primary Antibodies; Cancer; Cardiovascular; Immunology; Metabolism; Signal Transduction
References	Bailey, S.D., et al. Diabetes Care 33 (10):2250-2253 (2010). Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16 (10):770-777 (2010). Blonde-Cynober, F., et al. Ann. Biol. Clin. (Paris) 68 (5):569-575 (2010). Marsee, D.K., et al. Am. J. Clin. Pathol. 134 (3):429-435 (2010). Fernandez-Real, J.M., et al. Eur. J. Clin. Invest. 40 (7):600-607 (2010).

NCBI AND UNIPROT INFORMATION

NCBI GI #	189458819
NCBI GeneID	7037
NCBI Accession #	NP_001121620.1
NCBI GenBank Nucleotide #	NM_001128148.2
UniProt Accession #	P02786; Q1HE24; Q59G55; Q9UCN0; Q9UCU5; Q9UDF9; Q9UK21; D3DXB0
Molecular Weight	84871 Da
NCBI Official Full Name	transferrin receptor protein 1 isoform 1
NCBI Official Synonym Full Names	transferrin receptor
NCBI Official Symbol	TFRC
NCBI Official Synonym Symbols	T9; TR; TFR; p90; CD71; TFR1; TRFR; IMD46
NCBI Protein Information	transferrin receptor protein 1
UniProt Protein Name	Transferrin receptor protein 1
UniProt Gene Name	TFRC
UniProt Synonym Gene Names	TR; TfR; TfR1; Trfr; sTfR
UniProt Entry Name	TFR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.