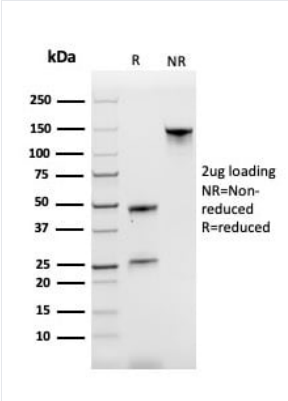
TFRC Antibody – Mouse Monoclonal

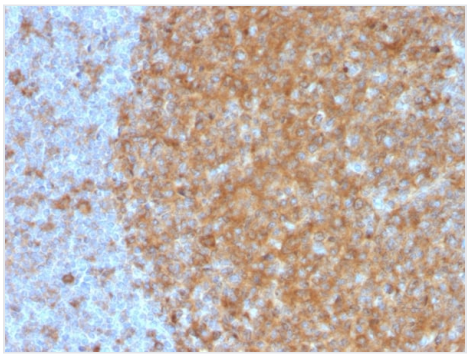
PRODUCT OVERVIEW

Product Name	CD71 (TFRC), Monoclonal Antibody
Full Product Name	CD71/Transferrin Receptor (TFRC)
Product Gene Name	anti-TFRC antibody
Product Synonym Names	Mtvr-1; p90; TFR1; TFRC transferrin receptor (p90 CD71); TRFR
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	TFRC/3630
Host	Mouse
Species Reactivity	Human
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Specificity	It recognizes a ~90-95kDa protein which is identified as cell surface transferrin receptor (CD71), a disulfide-bonded homodimeric glycoprotein of 180-190kDa (Workshop IV). This MAb is highly specific to CD71 and shows no cross-reaction with other related proteins. Ligand for transferrin receptor is the serum iron transport protein, transferrin. This receptor is broadly distributed in carcinomas, sarcomas, leukemias, and lymphomas. CD71/Transferrin receptor has been reported to be associated with cell proliferation in both normal and neoplastic tissues and useful in predicting clinical behavior or response to therapy in a number of malignancies including breast cancer.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Molecular Weight	85-95kDa (Monomer); 190kDa (Dimer)
OMIM	190010
3D Structure	ModBase 3D Structure for P02786
Immunogen	KG1 acute myeloid leukemia cell line
Cellular Localization	Cell Surface
Hu-chromosome Location	3q29
Positive Control	CCRF-CEM, Jurkat or K-562. Human placenta or Breast carcinoma.
Applications Tested/Suitable for anti-TFRC antibody	Immunohistochemistry (IHC) Paraffin
Application Notes for anti-TFRC antibody	IHC-P: 1-2ug/ml for 30 minutes at RT Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 degree C followed by cooling at RT for 20 minutes
Related Product Information for anti-TFRC antibody	MBS4381613 is an antibody targeting TFRC. Also known as CD71/Transferrin Receptor (TFRC). Reactive in Human. Host: Mouse.
Product References and Citations for anti-TFRC antibody	Knapp et al. Leukocyte Typing IV, Oxford Univ Press, Nrs. M15, M15.1, M15.1.1, M15.2, M15.3.1, M15.3.3, M15.4.2, M15.4.3, M15.5.6, M15.5.7, M15.5.9, M16.1, P1.6 and B22.16.

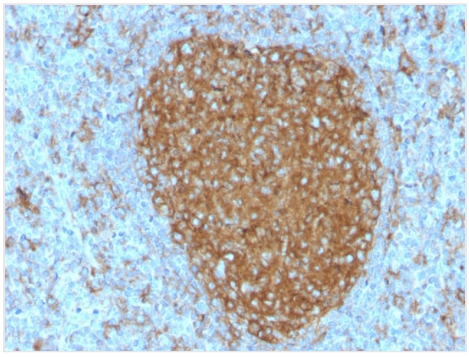
Other Notes	Small volumes of anti-TFRC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



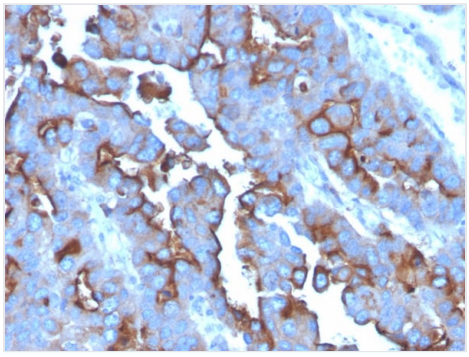
SDS-Page of anti-TFRC antibody
SDS-PAGE Analysis Purified CD71 Mouse Monoclonal antibody (TFRC/3630). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry (IHC)-Formalin of anti-TFRC antibody
Formalin-fixed, paraffin-embedded human Tonsil stained with CD71 Mouse Monoclonal Antibody (TFRC/3630).



Immunohistochemistry (IHC)-Formalin of anti-TFRC antibody
Formalin-fixed, paraffin-embedded human Tonsil stained with CD71 Mouse Monoclonal Antibody (TFRC/3630).



Immunohistochemistry (IHC) of anti-TFRC antibody
Formalin-fixed, paraffin-embedded human Tonsil stained with CD71 Mouse Monoclonal Antibody (TFRC/3630).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFRC. It may not necessarily be applicable to this product.

NCBI GI #	189458819
NCBI GeneID	7037
NCBI Accession #	NP_001121620.1
UniProt Primary Accession #	P02786
UniProt Related Accession #	P02786
GenBank Nucleotide #	NP_001121620.1
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
UniProt Protein Name	Transferrin receptor protein 1
UniProt Synonym Protein Names	T9; p90
Protein Family	Transferrin receptor protein

UniProt Gene Name	TFRC
UniProt Synonym Gene Names	TR; TfR; TfR1; Trfr; sTfR
UniProt Entry Name	TFR1_HUMAN
NCBI Protein Information	transferrin receptor protein 1
NCBI Summary for TFRC	This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]
UniProt Comments for TFRC	TfR: the transferrin receptor. Regulates the cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied receptors 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. Protein type: Membrane protein, integral; Receptor, misc.; Cell surface Chromosomal Location of Human Ortholog: 3q29 Cellular Component: extracellular space; cell surface; intracellular membrane-bound organelle; integral to plasma membrane; cytoplasmic membrane-bound vesicle; extracellular region; coated pit; recycling endosome; membrane; perinuclear region of cytoplasm; melanosome; plasma membrane; vesicle; endosome; external side of plasma membrane Molecular Function: identical protein binding; protein binding; transferrin receptor activity; double-stranded RNA binding Biological Process: receptor-mediated endocytosis; viral reproduction; cellular iron ion homeostasis; positive regulation of bone resorption; transferrin transport; osteoclast differentiation; regulation of cell growth; transmembrane transport; regulation of cell proliferation
Research Articles on TFRC	**1.** TfR1 expression (and VEGF) expression was correlated to shorter overall survival in osteosarcoma patients.
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