Transferrin Receptor (TFR) Eukaryotic Protein

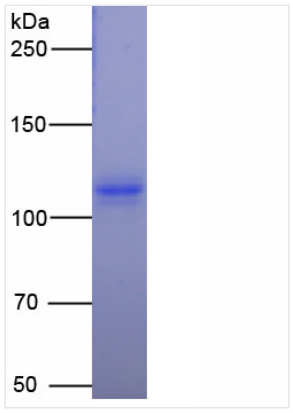
PRODUCT OVERVIEW

Product Name	Transferrin Receptor (TFR), Protein
Full Product Name	Eukaryotic Transferrin Receptor (TFR)
Product Gene Name	TFR protein
Product Synonym Names	Transferrin Receptor; CD71; TFR1; P90; TFRC; T9; Trfr; sTfR; Transferrin receptor protein 1, serum form
Sequence	Cys89~Phe7 60
Host	293F cells
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Purity/Purification	>90%
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Antibody: TFR Clone #C5 (MBS2153102) Immunogen: TFR (MBS2124304)
Molecular Weight	84,871 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (195776155..195809032, complement). Location: 3q29
OMIM	190010
3D Structure	ModBase 3D Structure for P02786
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Eukaryotic expression
Species	Human
Tag	N-terminal His Tag
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.8
Subcellular Location	Secreted
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Product Categories/Family for TFR protein	Signal transduction; CD & Adhesion molecule; Tumor immunity; Infection immunity; Eukaryotic proteins/EP
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for TFR protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for TFR protein	MBS2124304 is a protein targeting TFR. Also known as Eukaryotic Transferrin Receptor (TFR). Host: 293F cells.

Other Notes	Small volumes of TFR protein 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.


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CKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTGTIKLLNENSYVPREAGSQKDENLALYVENQFREFK
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KLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIKLTHDVELNLDYERYNSQLLSFV
RDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLNDRVMRVEYHFLSPYVSPKESPFRHVFWGSGSHTLPA
LLENLKLRKQNNGAFNETLFRNQLALATWTIQGAANALSGDVWDIDNEF
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Sequence Information of TFR protein



SDS-Page of TFR protein
Figure. SDS-PAGE

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFR. 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 Secondary Accession #	Q1HE24; Q59G55; Q9UCN0; Q9UCU5; Q9UDF9; Q9UK21; D3DXB0
UniProt Related Accession #	P02786
GenBank Nucleotide #	NM_001128148.1
NCBI Official Full Name	transferrin receptor protein 1
NCBI Official Synonym Full Names	transferrin receptor (p90, CD71)
NCBI Official Symbol	TFRC
NCBI Official Synonym Symbols	T9; TR; TFR; p90; CD71; TFR1; TRFR
UniProt Protein Name	Transferrin receptor protein 1
UniProt Synonym Protein Names	T9; p90
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

UniProt Comments for TFR	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 TFR	**1.** TfR1 N-terminal fragment is a substrate for intramembrane proteolysis by SPPL2b.
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