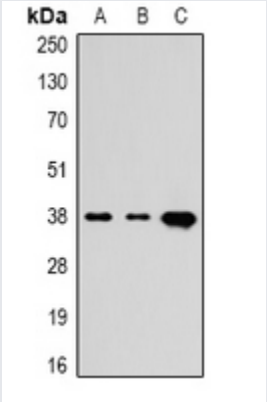
Transferrin (TF) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Transferrin (TF), Monoclonal Antibody
Full Product Name	Anti-Transferrin Antibody
Product Gene Name	anti-TF antibody
Product Synonym Names	Serotransferrin; Transferrin; Beta-1 metal-binding globulin; Siderophilin
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Specificity	Recognizes endogenous levels of Transferrin protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	77,064 Da
OMIM	190000
3D Structure	ModBase 3D Structure for P02787
Immunogen	Recombinant protein corresponding to human Transferrin.
Applications Tested/Suitable for anti-TF antibody	Western Blot (WB)
Application Notes for anti-TF antibody	Western Blot: (1/2000 - 1/5000)
Related Product Information for anti-TF antibody	MBS8241432 is an antibody targeting TF. Also known as Anti-Transferrin Antibody. Reactive in Human. Host: Mouse. Mouse monoclonal to Transferrin
Other Notes	Small volumes of anti-TF 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.



Western Blot (WB) of anti-TF antibody
Western blot analysis of Transferrin expression in human serum (A) whole cell lysates.

ADDITIONAL DETAILS

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

NCBI GI #	313104271
NCBI GeneID	7018
NCBI Accession #	P02787.3
UniProt Primary Accession #	P02787
UniProt Secondary Accession #	O43890; Q1HBA5; Q9NQB8; Q9UHV0
UniProt Related Accession #	P02787
NCBI Official Full Name	Serotransferrin
NCBI Official Synonym Full Names	transferrin
NCBI Official Symbol	TF
NCBI Official Synonym Symbols	TFQTL1; PRO1557; PRO2086; HEL-S-71p
UniProt Protein Name	Serotransferrin
UniProt Synonym Protein Names	Beta-1 metal-binding globulin; Siderophilin
Protein Family	Transferrin
UniProt Gene Name	TF
UniProt Synonym Gene Names	Transferrin
UniProt Entry Name	TRFE_HUMAN
NCBI Protein Information	serotransferrin
NCBI Summary for TF	This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum. [provided by RefSeq, Sep 2009]
UniProt Comments for TF	TF: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation. Defects in TF are the cause of atransferrinemia (ATRAF). Atransferrinemia is rare autosomal recessive disorder characterized by iron overload and hypochromic anemia. Belongs to the transferrin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 3q22.1 Cellular Component: apical plasma membrane; basal plasma membrane; cell surface; coated pit; cytoplasmic membrane-bound vesicle; early endosome; endocytic vesicle; endosome membrane; extracellular region; extracellular space; extrinsic to external side of plasma membrane; late endosome; perinuclear region of cytoplasm; recycling endosome; vesicle Molecular Function: ferric iron binding; ferric iron transmembrane transporter activity; ferrous iron binding; protein binding Biological Process: blood coagulation; cellular iron ion homeostasis; iron ion homeostasis; platelet activation; platelet degranulation; positive regulation of receptor-mediated endocytosis; regulation of protein stability; retinal homeostasis; transferrin transport; transmembrane transport Disease: Atransferrinemia

Research Articles on TF	**1.** TF severed as the carrier to delivery irons, and could directly stimulate cardiomyocytes hypertrophy.
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