Transferrin (TF) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Transferrin (TF), Monoclonal Antibody
Full Product Name	Transferrin Monoclonal Antibody
Product Gene Name	anti-TF antibody
Product Synonym Names	Serotransferrin; Transferrin; Beta-1 metal-binding globulin; Siderophilin
Clonality	Monoclonal
Isotype	IgG
Clone Number	4B4
Host	Mouse
Species Reactivity	Human
Purity/Purification	Protein A Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	77,064 Da
OMIM	M12530 mRNA
3D Structure	ModBase 3D Structure for P02787
Immunogen	Protein
Buffer	PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol pH 7.4.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TF antibody	Immunohistochemistry (IHC) Paraffin, ELISA (EIA)
Application Notes for anti-TF antibody	IHC: 1:100-200
Related Product Information for anti-TF antibody	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.
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.
Searchable Terms for TF purchase	MBS2548966 is an antibody targeting TF. Also known as Transferrin Monoclonal Antibody. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	4557871

NCBI GeneID	7018
NCBI Accession #	NP_001054.1
UniProt Primary Accession #	P02787
UniProt Secondary Accession #	O43890; Q1HBA5; Q9NQB8; Q9UHV0
UniProt Related Accession #	P02787
GenBank Nucleotide #	NM_001063.3
NCBI Official Full Name	serotransferrin isoform 1
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
NCBI Protein Information	serotransferrin
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; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q22.1 Cellular Component: apical plasma membrane; basal plasma membrane; cell surface; clathrin-coated pit; clathrin-coated vesicle membrane; cytoplasmic vesicle; early endosome; endocytic vesicle; endoplasmic reticulum lumen; 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: cellular iron ion homeostasis; cellular protein metabolic process; iron ion homeostasis; platelet degranulation; positive regulation of receptor-mediated endocytosis; post-translational protein modification; regulation of protein stability; retinal homeostasis; transferrin transport Disease: Atransferrinemia
Research Articles on TF	**1.** holotransferrin treatment to recombinant-TfR1 HepG2 cells did not elevate HAMP responses compared to untreated or wild-type cells. In
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-tf-human-antibody/transferrin/2548966