Transferrin (TF) Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	TRANSFERRIN (TF), Polyclonal Antibody
Full Product Name	GOAT ANTI HUMAN TRANSFERRIN
Product Gene Name	anti-TF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Goat
Form/Format	Serum Serum - liquid
Specificity	This item recognizes human Transferrin, also known as Serotransferrin, an iron binding glycoprotein expressed by the liver and secreted into plasma. Transferrin has an important role in transporting iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This reagent is available in bulk quantities and may be made available in other formats. Please enquire for further details.
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	77,064 Da
OMIM	190000
3D Structure	ModBase 3D Structure for P02787
Perservative Stabilisers	0.09% Sodium Azide (NaN3)
Immunogen	Purified human Transferrin Buffer Solution||TRIS buffered saline
Antiserum Preparation	Antisera to Human Transferrin were raised by repeated immunisation of goats with highly purified antigen.
Target Species	Human
Applications Tested/Suitable for anti-TF antibody	Turbidimetry (TB)
Related Product Information for anti-TF antibody	Goat anti human transferrin polyclonal antibody recognizes human Transferrin, also known as Serotransferrin, an iron binding glycoprotein expressed by the liver and secreted into plasma. Transferrin has an important role in transporting iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This reagent is available in bulk quantities and may be made available in other formats. Please enquire for further details.
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	MBS223619 is an antibody targeting TF. Also known as GOAT ANTI HUMAN TRANSFERRIN. Host: Goat.

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
NCBI Official Synonym Full Names	transferrin
NCBI Official Symbol	TF
NCBI Official Synonym Symbols	TFQTL1; PRO1557; PRO2086
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; beta-1 metal-binding globulin; siderophilin
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: extracellular space; cell surface; early endosome; cytoplasmic membrane-bound vesicle; extracellular region; coated pit; recycling endosome; endocytic vesicle; perinuclear region of cytoplasm; apical plasma membrane; late endosome; basal plasma membrane; endosome membrane; vesicle Molecular Function: protein binding; ferric iron binding; ubiquitin protein ligase binding Biological Process: retinal homeostasis; platelet activation; platelet degranulation; cellular iron ion homeostasis; transferrin transport; blood coagulation; transmembrane transport Disease: Atransferrinemia

Research Articles on TF	**1.** TF translocates to the cell front in association with cytoskeleton proteins and regulates HVSMC migration by mechanisms dependent and independent of factor (F)VIIa/PAR2
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