Transferrin (TF) Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	transferrin (TF), Polyclonal Antibody
Full Product Name	Goat anti Rat transferrin
Product Gene Name	anti-TF antibody
Clonality	Polyclonal
Host	Goat
Species Reactivity	Rat
Specificity	Precipitating polyclonal Goat antiSerum to Rat transferrin.
Preparation and Storage	Store at 4 degree C.
Molecular Weight	77,064 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (133464977..133497850). Location: 3q22.1
OMIM	190000
3D Structure	ModBase 3D Structure for P02787
Reactivity Note	Inter-species cross-reactivity is a normal feature of antibodies to Serum proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail.
Product Categories/Family for anti-TF antibody	Antisera
Applications Tested/Suitable for anti-TF antibody	Immunoprecipitation (IP)
Related Product Information for anti-TF antibody	MBS573290 is an antibody targeting TF. Also known as Goat anti Rat transferrin. Reactive in Rat. Host: Goat.
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.

ADDITIONAL DETAILS

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

NCBI GI #	339453
NCBI GeneID	7018
NCBI Accession #	AAA61140.1
UniProt Primary Accession #	P02787
UniProt Secondary Accession #	O43890; Q1HBA5; Q9NQB8; Q9UHV0
UniProt Related Accession #	P02787
NCBI Official Full Name	transferrin
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; siderophilin; beta-1 metal-binding globulin
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; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q22.1 Cellular Component: extracellular space; cell surface; cytoplasmic membrane-bound vesicle; early endosome; extracellular region; coated pit; recycling endosome; perinuclear region of cytoplasm; endocytic vesicle; late endosome; apical plasma membrane; 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.** The structures of hTF observed here represent key conformers captured in the dynamic nature of the transferrin family proteins and provide a structural basis for understanding the mechanism of metal uptake and release in transferrin families.
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