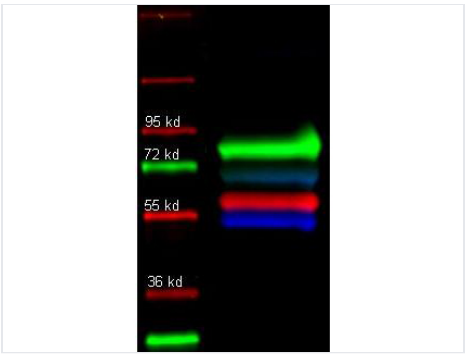
Transferrin (TF) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Transferrin (TF), Polyclonal Antibody
Full Product Name	Transferrin antibody
Product Gene Name	anti-TF antibody
Product Synonym Names	Polyclonal Transferrin; Anti-Transferrin; DKFZp781D0156; Serotransferrin precursor; Siderophilin; PRO2086; Apotransferrin; PRO1557; TF; beta 1 metal binding globulin; PRO1400
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	human transferrin
Form/Format	IgG fraction supplied as a liquid in PBS, pH 7.4 with 0.01% NaN3
Purity/Purification	Transferrin antibody was purified by delipidation and defibrination.
Specificity	human transferrin
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles. Dilute only prior to immediate use.
Molecular Weight	77,064 Da
OMIM	190000
3D Structure	ModBase 3D Structure for P02787
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Immunogen	Transferrin antibody was raised in rabbit using human transferrin as the immunogen.
Product Categories/Family for anti-TF antibody	Nutrition & Metabolism
Applications Tested/Suitable for anti-TF antibody	ELISA (EIA), Western Blot (WB)
Related Product Information for anti-TF antibody	MBS536065 is an antibody targeting TF. Also known as Transferrin antibody. Reactive in human transferrin. Host: Rabbit. Rabbit polyclonal Transferrin antibody
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 of anti-TF antibody
Western Blot analysis using Transferrin antibodyPrimary and Dylight conj ugated secondary antibodies were used to detect: Human transferrin (green); alpha 1 Antitrypsin (red); and Human IgG (blue) in a multiplex fluorescent western blot of human serum. Each primary antibody was diluted to 1:1000 in IRdye blocking buffer and incubated for 2 hrs at RT. Blot was 3X in TTBS, 1X in TBS and probed with secondary antibodies diluted 1:10000 in IRdye blocking buffer and incubated ~ 1hr at 4 degrees. After wash 2X in TTBS and 2X in TBS, blot was rinsed 2X in MeOH, dried and imaged using the Biorad VersaDoc4000.

ADDITIONAL DETAILS

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

NCBI GI #	248648
NCBI GeneID	7018
NCBI Accession #	AAB22049.1
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
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; 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.** genetic association studies in a population of black women in South Africa: Data confirm that an SNP in TF (rs1799852) is associated with iron status/iron-deficiency anemia in the population studied.
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