# Transferrin (TF) Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | Transferrin (TF), Monoclonal Antibody |
| **Full Product Name** | Transferrin Monoclonal Antibody(7H11) |
| **Product Gene Name** | anti-TF antibody |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | 7H11 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | Transferrin Mouse Monoclonal Antibody£¨7H11£© detects endogenous levels of Transferrin |
| **Preparation and Storage** | Store at -20 degree C |
| **Molecular Weight** | 77,064 Da |
| **OMIM** | M12530 mRNA |
| **Immunogen** | Recombinant Protein |
| **Product Categories/Family for anti-TF antibody** | Total protein Ab |
| **Applications Tested/Suitable for anti-TF antibody** | Immunohistochemistry (IHC) |
| **Application Notes for anti-TF antibody** | Immunohistochemistry: 1:100-1:200 |
| **Related Product Information for anti-TF antibody** | MBS9417523 is an antibody targeting TF. Also known as Transferrin Monoclonal Antibody(7H11). Reactive in Human. Host: Mouse. |
| **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.

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| **NCBI GI #** | 339453 |
| **NCBI GeneID** | 7018 |
| **UniProt Secondary Accession #** | O43890; Q1HBA5; Q9NQB8; Q9UHV0 |
| **UniProt Related Accession #** | P02787 |
| **NCBI Official Full Name** | transferrin |
| **NCBI Official Synonym Full Names** | transferrin |

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| **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.<br><br>Protein type: Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 3q22.1<br><br>Cellular Component: apical plasma membrane; basal plasma membrane; cell surface; coated pit; cytoplasmic 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<br><br>Molecular Function: ferrous iron binding; protein binding<br><br>Biological Process: cellular iron ion homeostasis; iron ion homeostasis; platelet degranulation; positive regulation of receptor-mediated endocytosis; regulation of protein stability; retinal homeostasis; transferrin transport<br><br>Disease: Atransferrinemia |
| **Research Articles on TF** | **1.** the analysis of the hTf complex with a bacterial receptor that has evolved to sequester iron identifies two regions contacting rapidly evolving residues that mechanically manipulate dissociation from the pathogen |
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