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TF Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6804b

Specification

TF Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P02787
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**627-654**

TF Antibody (C-term) - Additional Information

Gene ID 7018

Other Names
Serotransferrin, Transferrin, Beta-1 metal-binding globulin, Siderophilin, TF

Target/Specificity
This TF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 627-654 amino acids from the C-terminal region of human TF.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TF Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TF Antibody (C-term) - Protein Information

Name TF (HGNC:11740)

Function 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. (Microbial infection) Serves as an iron source for parasite T.brucei (strain 427), which capture TF via its own transferrin receptor ESAG6:ESAG7 and extract its iron for its own use.

Cellular Location
Secreted.

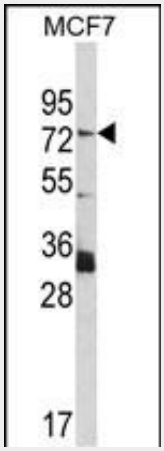
Tissue Location
Expressed by the liver and secreted in plasma.

TF Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

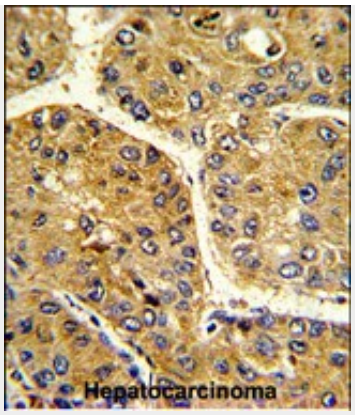
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TF Antibody (C-term) - Images

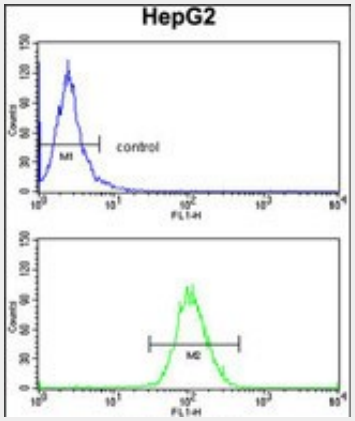


Western blot analysis of TF Antibody (C-term) (Cat. #AP6804b) in MCF7 cell line lysates (35ug/lane). TF (arrow) was detected using the purified Pab.

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Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with TF Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



TF Antibody (C-term) (Cat.#AP6804b) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TF Antibody (C-term) - Background

TF is 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.

TF Antibody (C-term) - References

Mason,A.B., et.al., Biochemistry 32 (20), 5472-5479 (1993)