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# TF Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6804b

## Product Information

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| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | P02787 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB19653 |
| **Calculated MW** | 77064 |
| **Antigen Region** | 627-654 |

## Additional Information

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| **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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **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. |

## Protein Information

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| **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 |

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| | 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. |

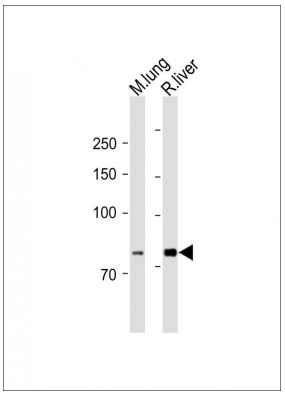
## Background

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.

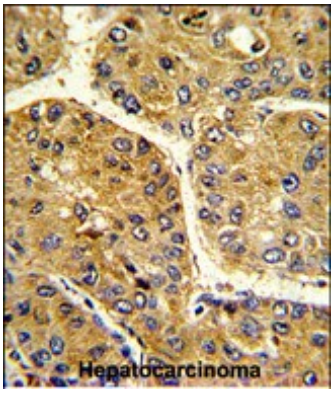
## References

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

## Images

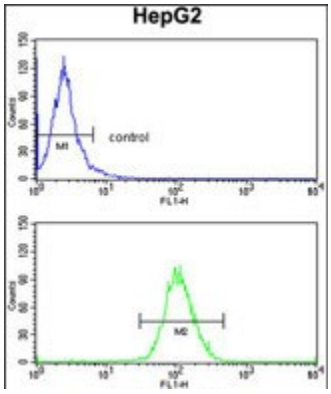



All lanes: Anti-TF Antibody (C-term) at 1:2000 dilution Lane 1: Mouse lung lysate Lane 2: Rat liver lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 75 KDa Blocking/Dilution buffer: 5% NFDM/TBST.




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.

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