

## Transferrin receptor protein 1 Polyclonal Antibody

Catalog No: #42479

Orders: order@signalwayantibody.com

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## Description

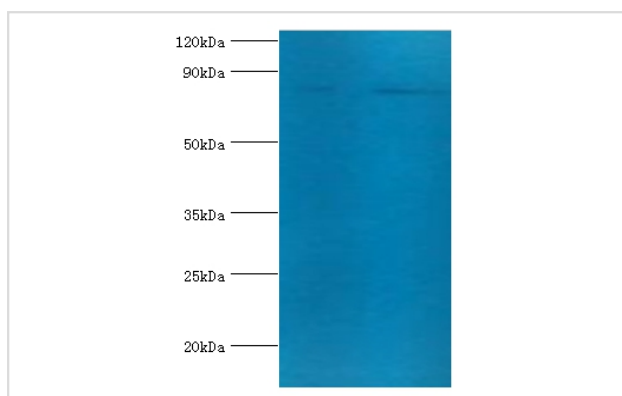
Product Name	Transferrin receptor protein 1 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Transferrin receptor protein 1 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Transferrin receptor protein 1 protein
Target Name	Transferrin receptor protein 1
Other Names	T9, p90, CD71, TFRC
Accession No.	Swiss-Prot#: P02786
Uniprot	P02786
GeneID	7037;
Calculated MW	85kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

## Application Details

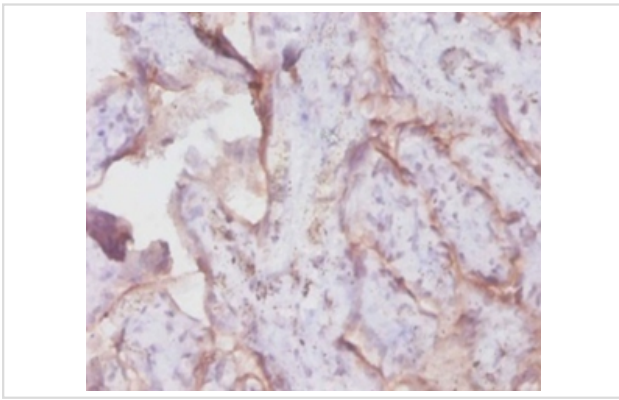
Western blotting: □ 1:500 - 1:1000

Immunohistochemistry: 1:20 - 1:200

## Images



All lanes: Transferrin receptor protein 1 antibody at 2ug/ml  
 Lane 1: U251 whole cell lysate  
 Lane 2: 293T whole cell lysate  
 secondary  
 Goat polyclonal to rabbit at 1/10000 dilution  
 predicted band size :85kDa  
 observed band size :85kDa



Immunohistochemical analysis of paraffin-embedded human placenta using #42479 at dilution of 1:100.

## Background

Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system. By similarity, a second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site.

## References

- [1] "Primary structure of human transferrin receptor deduced from the mRNA sequence." Schneider C., Owen M.J., Banville D., Williams J.G. *Nature* 311:675-678(1984) [2] "The human transferrin receptor gene: genomic organization, and the co

Note: This product is for in vitro research use only