

TFRC Antibody

Catalog No: #33101

Package Size: #33101-1 50ul #33101-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

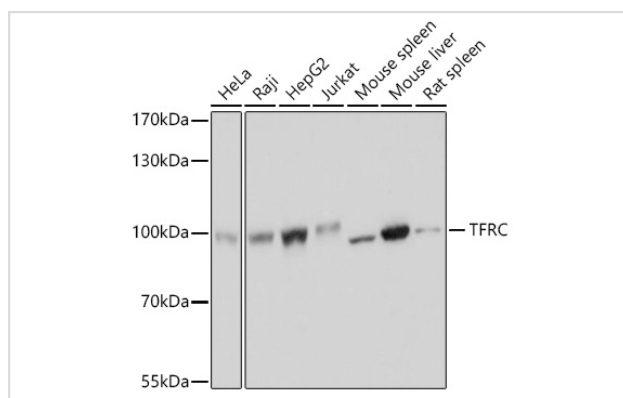
Product Name	TFRC Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total TFRC protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human TFRC.
Conjugates	Unconjugated
Target Name	TFRC
Other Names	T9; TR; TFR; p90; CD71
Accession No.	Swiss-Prot:P02786NCBI Gene ID:7037
SDS-PAGE MW	84KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

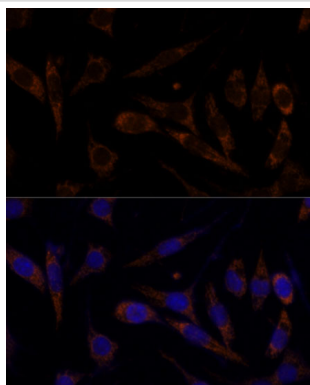
Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:200

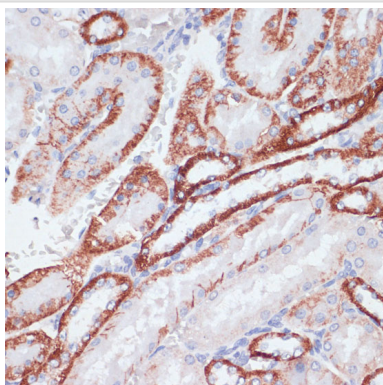
Images



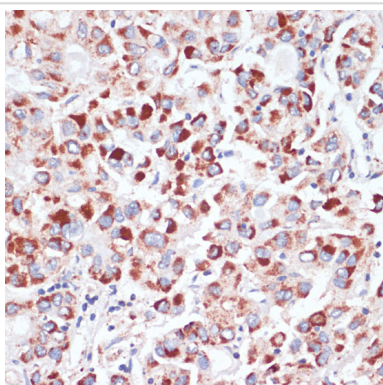
Western blot analysis of extracts of various cell lines, using TFRC antibody at 1:3000 dilution.



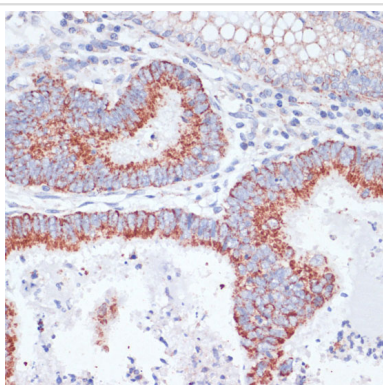
Immunofluorescence analysis of L929 cells using TFRC Polyclonal antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



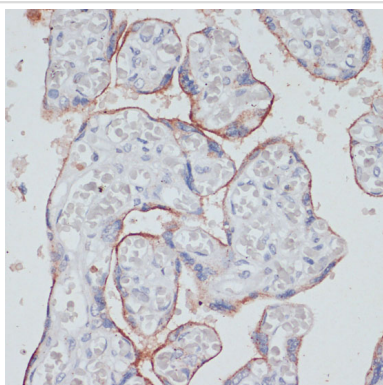
Immunohistochemistry of paraffin-embedded rat kidney using TFRC antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human liver cancer using TFRC antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human colon carcinoma using TFRC antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human placenta using TFRC antibody at dilution of 1:100 (40x lens).

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. A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site.

Published Papers

Weixing Xu;Rana Dhar;Danyang Zheng;Qi Peng;Yue Li;Sheng Mei;Huifang Tang et al., PDE4B promotes ferroptosis in nucleus pulposus cells and is involved in intervertebral disc degeneration., , (2025)

[PMID:39893206](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.