

# TFRC Antibody

Catalog No: #33101



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

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

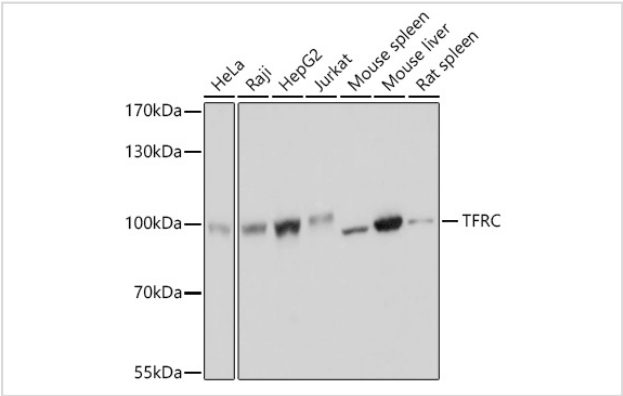
## Description

|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | TFRC Antibody                                                                                                                       |
| Host Species          | Rabbit                                                                                                                              |
| Clonality             | Polyclonal                                                                                                                          |
| Purification          | Antibodies were purified by affinity purification using immunogen.                                                                  |
| Applications          | WB,IHC,IF                                                                                                                           |
| Species Reactivity    | Human;Mouse;Rat                                                                                                                     |
| 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 Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage               | Store at -20°C                                                                                                                      |

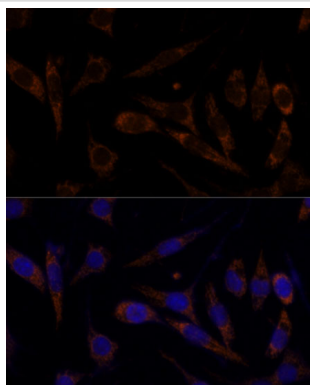
## Application Details

WB 1:500 - 1:2000IHC 1:50 - 1:200IF 1:50 - 1:200

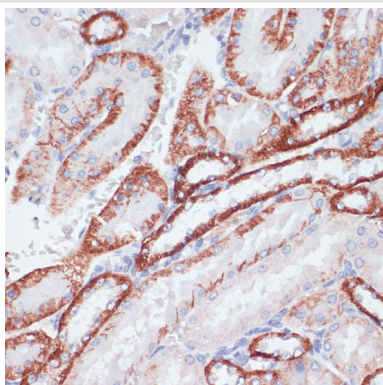
## Images



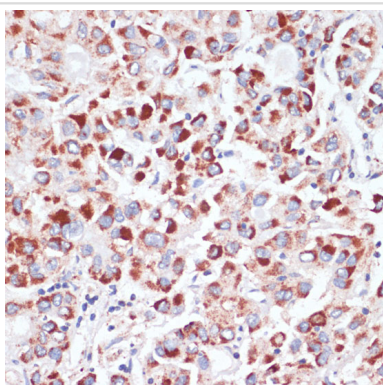
Western blot analysis of extracts of various cell lines, using TFRC antibody at 1:3000 dilution.



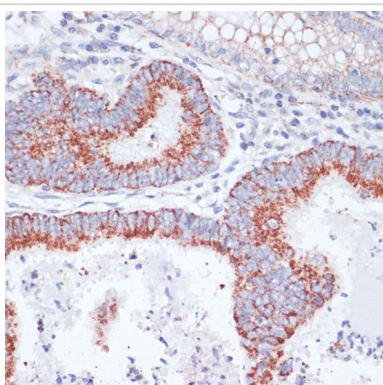
Immunofluorescence analysis of L929 cells using TFRC Polyclonal antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



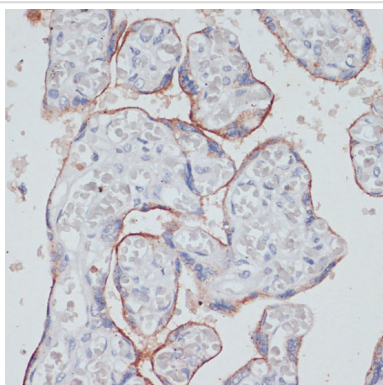
Immunohistochemistry of paraffin-embedded rat kidney using TFRC antibody at dilution of 1:100 (40x lens).



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.