Transferrin Receptor (CD71) Rabbit mAb

Catalog No: #49320

Package Size: #49320-1 50ul #49320-2 100ul

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

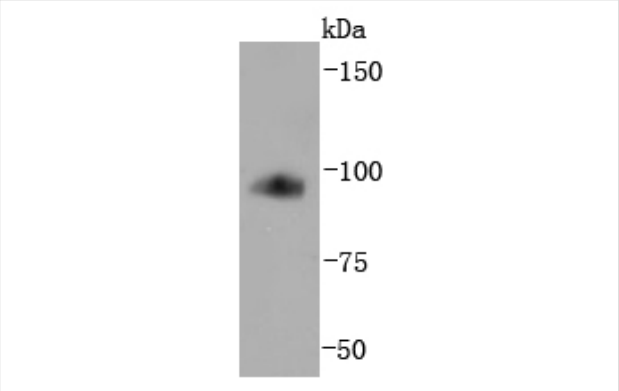
Description

Product Name	Transferrin Receptor (CD71) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF0956
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	CD 71 antibody CD71 antibody CD71 antigen antibody IMD46 antibody OTTHUMP00000208523 antibody OTTHUMP00000208524 antibody OTTHUMP00000208525 antibody p90 antibody sTfR antibody T9 antibody TFR 1 antibody TfR antibody TfR1 antibody TFR1_HUMAN antibody TFRC antibody TR antibody Transferrin receptor (p90 CD71) antibody Transferrin receptor protein 1, serum form antibody Trfr antibody
Accession No.	Swiss-Prot#:P02786
Calculated MW	85 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

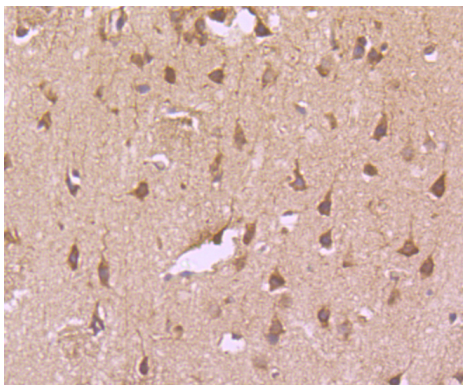
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200FC: 1:50-1:100

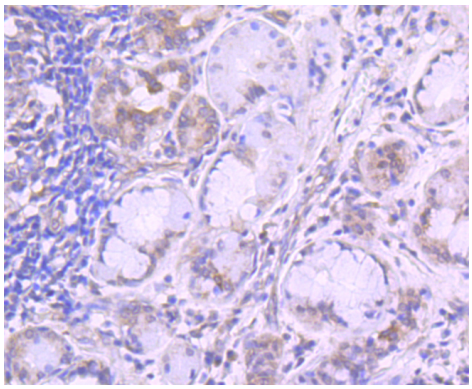
Images



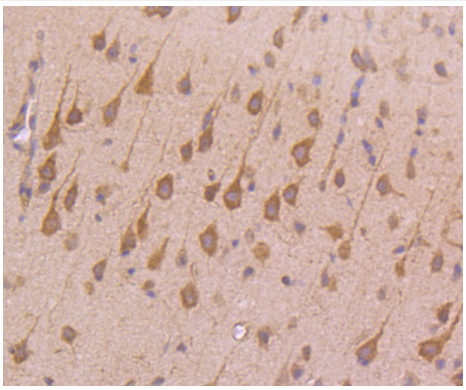
Western blot analysis of Transferrin Receptor on mouse placenta lysates using anti-Transferrin Receptor antibody at 1/1,000 dilution.



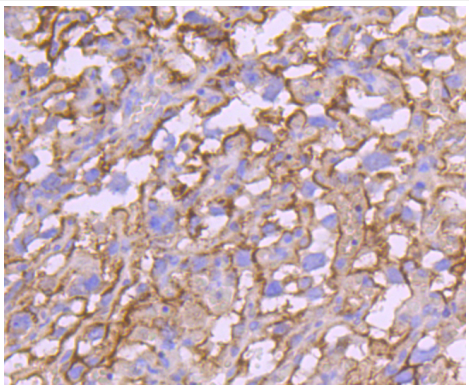
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Transferrin Receptor antibody. Counter stained with hematoxylin.



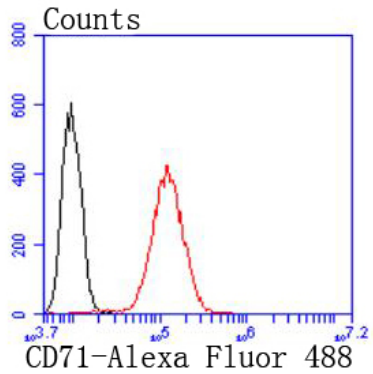
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Transferrin Receptor antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Transferrin Receptor antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-Transferrin Receptor antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Hela cells with Transferrin Receptor antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

CD71, also known as the transferrin receptor (TFR), is a type II membrane glycoprotein that exists as a disulfide-linked homodimer of two identical subunits. CD71 binds to two molecules of transferrin and a serum iron-transport protein, and directs the cellular uptake of iron via receptor-mediated endocytosis. CD71 is expressed, typically at high levels, on all proliferating cells, reticulocytes and erythroid precursors. It is not expressed on resting leukocytes, but is upregulated upon activation of lymphocytes, monocytes and macrophages. CD71 is also found on most dividing cells and on brain endothelium. A second transferrin receptor, TFR2, also mediates the uptake of transferrin-bound iron. TFR2 is a two-subunit homodimer and is highly expressed in liver as well as in hepatocytes and erythroid precursors. Mutations in the TFR2 gene result in hereditary hemochromatosis type III (HFE3), an iron overloading disorder predominant in Caucasians.

References

1. Wang Y et al. Role of hemoglobin and transferrin in multi-wall carbon nanotube-induced mesothelial injury and carcinogenesis. Cancer Sci 107:250-7 (2016). 2. Song J et al. Native low density lipoprotein promotes lipid raft formation in macrophages. Mol Med Rep 13:2087-93 (2016).

Published Papers

Mengyu Gu;Lieqian Sun;Jie Yang;Kaiyi Wang;Fan Wu;Li Zheng;Xiangzhong Shen;Xing Lai;Lili Gong;Ying Peng;Shujie Xu;Jia Yang;Chao Yang el at., Ditan Decoction ameliorates vascular dementia-induced cognitive dysfunction through anti-ferroptosis via the HIF1α pathway: Integrating network pharmacology and experimental validation., , (2025)

PMID:39978449