

CD71/TfR (phospho Ser24) Polyclonal Antibody

Catalog No: YP0729

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: CD71/TfR

Fields: >>HIF-1 signaling

pathway;>>Endocytosis;>>Phagosome;>>Ferroptosis;>>Hematopoietic cell

lineage

Gene Name: TFRC

Protein Name: Transferrin receptor protein 1

P02786

Q62351

Human Gene Id: 4155

Human Swiss Prot

No:

Mouse Gene Id: 22042

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

CD71/TfR around the phosphorylation site of Ser24. AA range:15-64

Specificity: Phospho-CD71 (S24) Polyclonal Antibody detects endogenous levels of CD71

protein only when phosphorylated at S24.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 89kD

Location:

Cell Pathway : Protein_Acetylation

Background: This gene encodes a cell surface receptor necessary for cellular iron uptake by

the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants

have been identified. [provided by RefSeq, Sep 2015],

Function: function: 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 heditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site.,induction:Regulated by cellular iron levels through binding of the iron regulatory proteins, IRP1 and IRP2,

to iron-responsive elements in the 3'-UTR. Up-regulated upon mitogenic

stimulation., miscellaneous: Canine and feline parvoviruses bind human and feline

transferrin receptors and use t

Subcellular Cell membrane ; Single-pass type II membrane protein . Melanosome . Identified

by mass spectrometry in melanosome fractions from stage I to stage IV. .;

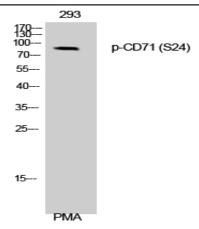
[Transferrin receptor protein 1, serum form]: Secreted .

Expression : Brain, Epithelium, Erythroleukemia, Eye, Human endometrium carcinoma cell

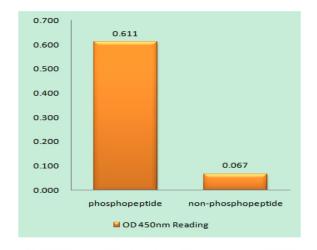
line,Liver,PI

Products Images

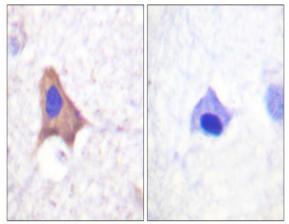
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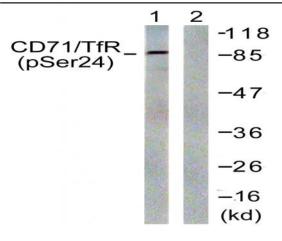
Western Blot analysis of 293 cells using Phospho-CD71 (S24) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CD71/TfR (Phospho-Ser24) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using CD71/TfR (Phospho-Ser24) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with PMA 125ng/ml 30', using CD71/TfR (Phospho-Ser24) Antibody. The lane on the right is blocked with the phospho peptide.