

CD71/TfR Polyclonal Antibody

Catalog No :	YT0775
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
Human Gene Id :	7037
Human Swiss Prot No :	P02786
Mouse Gene Id :	22042
Mouse Swiss Prot No :	Q62351
Immunogen :	The antiserum was produced against synthesized peptide derived from human CD71/TfR. AA range:15-64
Specificity :	CD71 Polyclonal Antibody detects endogenous levels of CD71 protein.
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

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 hereditary 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 Location : 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

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