

**CD71/TfR Polyclonal Antibody**

<b>Catalog No :</b>	YT5374
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	CD71/TfR
<b>Fields :</b>	>>HIF-1 signaling pathway;>>Endocytosis;>>Phagosome;>>Ferroptosis;>>Hematopoietic cell lineage
<b>Gene Name :</b>	TFRC
<b>Protein Name :</b>	Transferrin receptor protein 1
<b>Human Gene Id :</b>	7037
<b>Human Swiss Prot No :</b>	P02786
<b>Mouse Swiss Prot No :</b>	Q62351
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the N-terminal region of human TFRC. AA range:101-150
<b>Specificity :</b>	CD71 Polyclonal Antibody detects endogenous levels of CD71 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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

**Observed Band :** 85kD

**Cell Pathway :** Endocytosis;Hematopoietic cell lineage;

**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 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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