



CD71/TfR Polyclonal Antibody

Catalog No	BYab-13910
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	TFRC
Protein Name	Transferrin receptor protein 1
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TFRC; Transferrin receptor protein 1; TR; TfR; TfR1; Trfr; T9; p90; CD antigen CD71
Observed Band	89kD
Cell Pathway	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 .
Tissue Specificity	Brain,Epithelium,Erythroleukemia,Eye,Human endometrium carcinoma cell line,Liver,PI
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,

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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

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],

matters needing attention

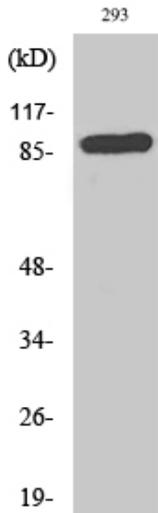
Avoid repeated freezing and thawing!

Usage suggestions

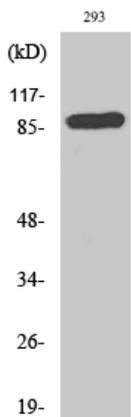
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



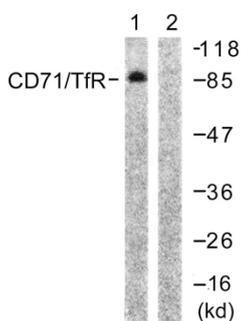
Products Images



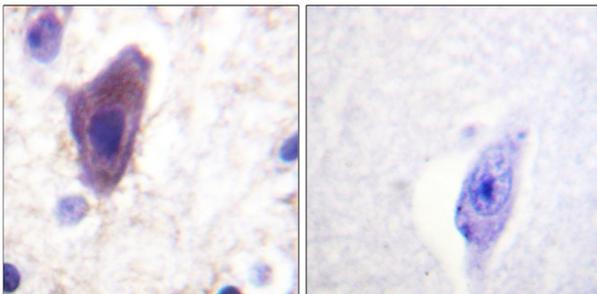
Western Blot analysis of various cells using CD71 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CD71/TfR Antibody. The picture on the right is blocked with the synthesized peptide.



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



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