

CD71/TfR Monoclonal Antibody

Catalog No :	YM0132
Reactivity :	Human
Applications :	WB;IHC;IF;FCM;ELISA
Target :	CD71/TfR
Fields :	>>HIF-1 signaling pathway;>>Endocytosis;>>Phagosome;>>Ferroptosis;>>Hematopoietic cell lineage
Gene Name :	TFR1
Protein Name :	Transferrin receptor protein 1
Human Gene Id :	4155
Human Swiss Prot No :	P02786
Mouse Swiss Prot No :	Q62351
Immunogen :	Purified recombinant fragment of human CD71 expressed in E. Coli.
Specificity :	CD71 Monoclonal Antibody detects endogenous levels of CD71 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	85kD

Cell Pathway : Protein_Acetylation

P References : 1. Cancer Epidemiol Biomarkers Prev. 2009 May;18(5):1651-8.
2. Biochemistry. 2009 Jun 9;48(22):4720-7.

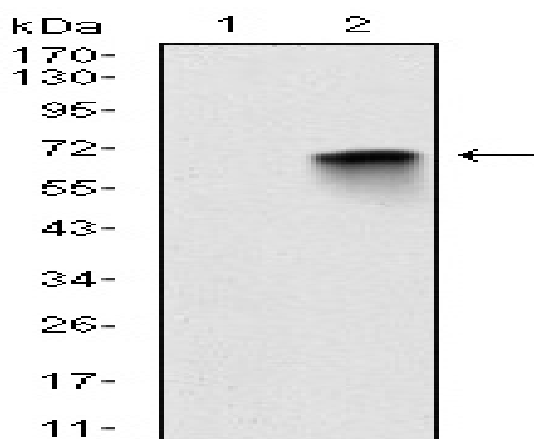
Background : This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015],

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

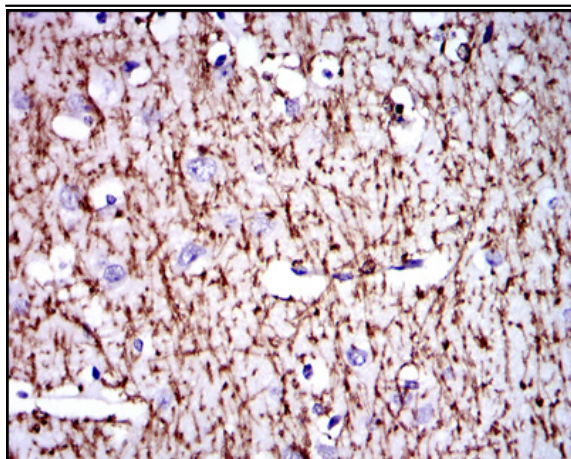
Subcellular Location : Cell membrane ; Single-pass type II membrane protein . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .; [Transferrin receptor protein 1, serum form]: Secreted .

Expression : Brain,Epithelium,Erythroleukemia,Eye,Human endometrium carcinoma cell line,Liver,PI

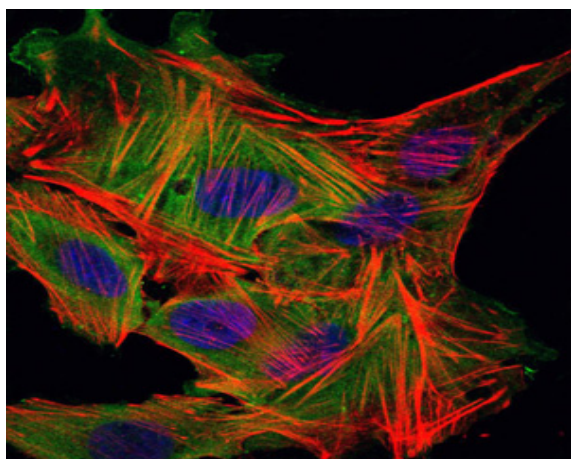
Products Images



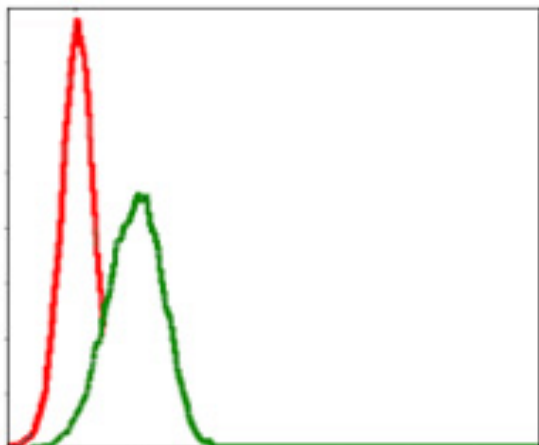
Western Blot analysis using CD71 Monoclonal Antibody against HEK293 (1) and MBP-hlgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded brain tissues with DAB staining using CD71 Monoclonal Antibody.



Immunofluorescence analysis of MSCS cells using CD71 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HepG2 cells using CD71 Monoclonal Antibody (green) and negative control (red).

