

## CD71/TfR Monoclonal Antibody

<b>Catalog No :</b>	YM0132
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;FCM;ELISA
<b>Target :</b>	CD71/TfR
<b>Fields :</b>	>>HIF-1 signaling pathway;>>Endocytosis;>>Phagosome;>>Ferroptosis;>>Hematopoietic cell lineage
<b>Gene Name :</b>	TFR1
<b>Protein Name :</b>	Transferrin receptor protein 1
<b>Human Gene Id :</b>	4155
<b>Human Swiss Prot No :</b>	P02786
<b>Mouse Swiss Prot No :</b>	Q62351
<b>Immunogen :</b>	Purified recombinant fragment of human CD71 expressed in E. Coli.
<b>Specificity :</b>	CD71 Monoclonal 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>	Monoclonal, Mouse
<b>Dilution :</b>	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.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	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.

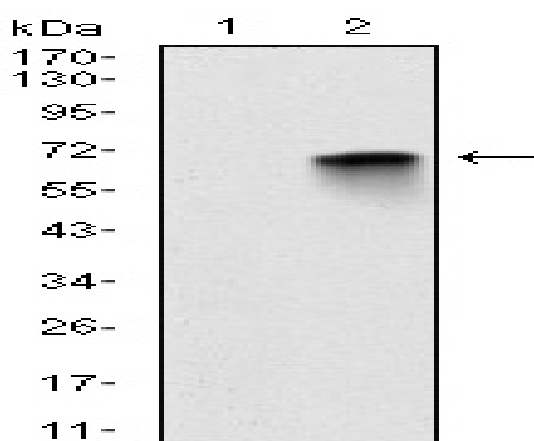
**Background :** This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep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

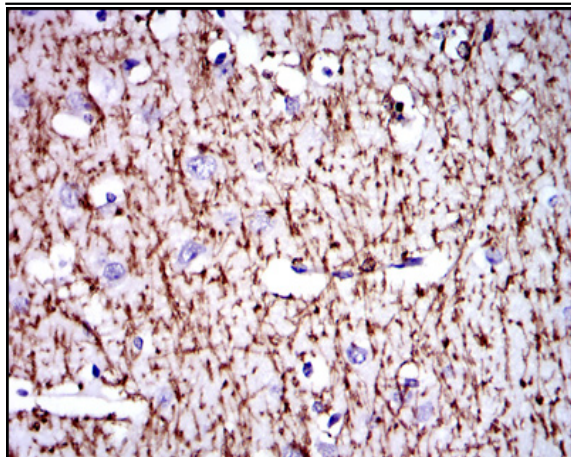
**Subcellular Location :** Cell membrane ; Single-pass type II membrane protein . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .; [Transferrin receptor protein 1, serum form]: Secreted .

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

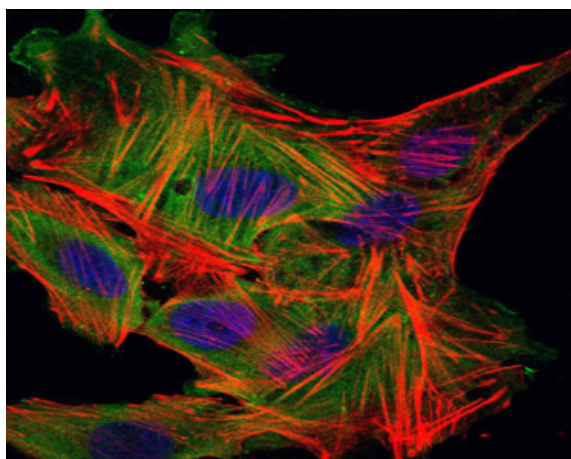
## Products Images



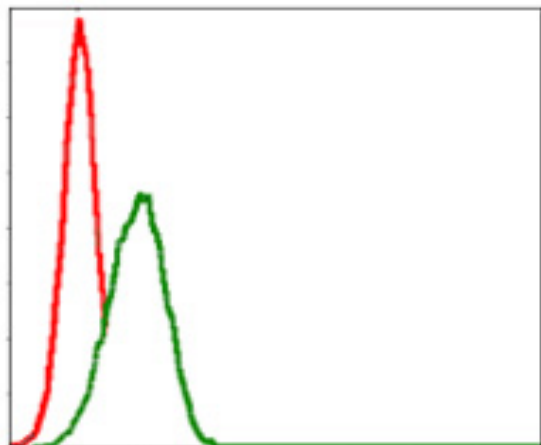
Western Blot analysis using CD71 Monoclonal Antibody against HEK293 (1) and MBP-hlgGfc transfected HEK293 (2) cell lysate.



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).

