

CD71 (PT0719) Mouse mAb

Catalog No :	YM4281
Reactivity :	Human
Applications :	WB;ELISA
Target :	TFRC
Gene Name :	TFRC
Protein Name :	Transferrin receptor protein 1 (TR) (TfR) (TfR1) (Trfr) (T9) (p90) (CD antigen CD71) [Cleaved into: Transferrin receptor protein 1, serum form (sTfR)]
Human Gene Id :	7037
Human Swiss Prot No :	P02786
Mouse Gene Id :	22042
Mouse Swiss Prot No :	Q62351
Rat Swiss Prot No :	Q99376
Immunogen :	Synthesized peptide derived from human CD71. AA range: 100-200
Specificity :	This antibody detects endogenous levels of CD71 at Human
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Monoclonal, Mouse IgG1, Kappa
Dilution :	WB 1:500-2000,ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml

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

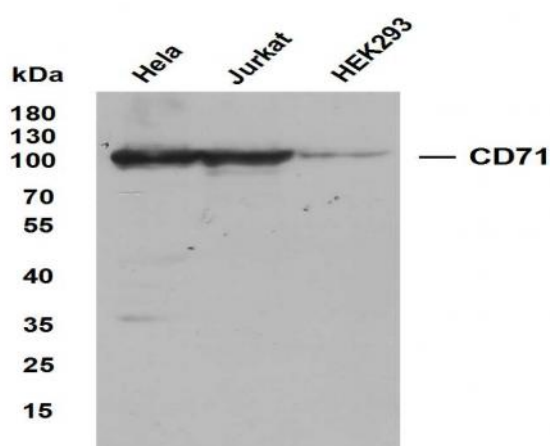
Observed Band : 95kD

Background : transferrin receptor (TFRC) Homo sapiens 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 : 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. Positively regulates T and B cell proliferation through iron uptake. Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway. When dietary levels of stearate (C18:0) are low, promotes activation of the JNK pathway, resulting in HUWE1-mediated ubiqu

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.

Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Her-2 (PT1844) antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Jurkat Lane 3: HEK293 Predicted band size: 84kDa Observed band size: 100kDa