

CD71 (PT0719) mouse mAb

Catalog No :	YM4281
Reactivity :	Human;
Applications :	WB;IF;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 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG1, kappa
Dilution :	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Concentration :	1 mg/ml

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

Molecularweight : 84kD

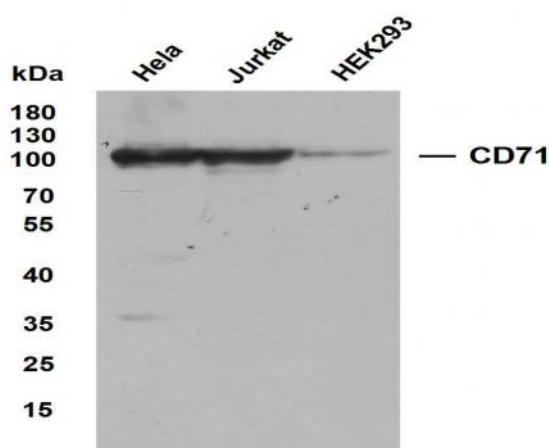
Observed Band : 100kD

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 heditary 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 : Membranous

Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Her-2 (PT0719) 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