

## CD71 (PT0719) mouse mAb

<b>Catalog No :</b>	YM4281
<b>Reactivity :</b>	Human;
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	TFRC
<b>Gene Name :</b>	TFRC
<b>Protein Name :</b>	Transferrin receptor protein 1 (TR) (TfR) (TfR1) (Trfr) (T9) (p90) (CD antigen CD71) [Cleaved into: Transferrin receptor protein 1, serum form (sTfR)]
<b>Human Gene Id :</b>	7037
<b>Human Swiss Prot No :</b>	P02786
<b>Mouse Gene Id :</b>	22042
<b>Mouse Swiss Prot No :</b>	Q62351
<b>Rat Swiss Prot No :</b>	Q99376
<b>Immunogen :</b>	Synthesized peptide derived from human CD71. AA range: 100-200
<b>Specificity :</b>	This antibody detects endogenous levels of CD71 protein.
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Mouse, Monoclonal/IgG1, kappa
<b>Dilution :</b>	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
<b>Purification :</b>	Protein G
<b>Concentration :</b>	1 mg/ml

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

**Molecularweight :** 84kD

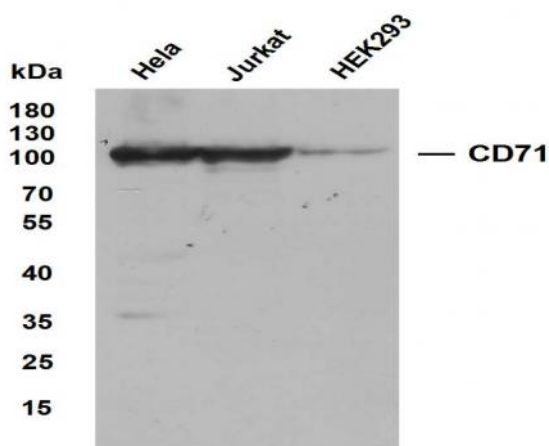
**Observed Band :** 100kD

**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