

**CD71 (PN0513) Nb-FC recombinant antibody**

<b>Catalog No :</b>	YA0480
<b>Reactivity :</b>	Human
<b>Applications :</b>	ELISA
<b>Target :</b>	CD71
<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>Immunogen :</b>	Purified recombinant Human CD71
<b>Specificity :</b>	This recombinant monoclonal antibody can detects endogenous levels of CD71 protein.
<b>Formulation :</b>	Phosphate-buffered solution
<b>Source :</b>	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
<b>Dilution :</b>	ELISA 1:5000-100000
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Concentration :</b>	Please check the information on the tube
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
<b>Background :</b>	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 :**

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