

CD71 (PN0403) Nb-FC recombinant antibody

CatalogNo: YA0422 **Recombinant** 

Key Features

Reactivity

- Human

Applications

- ELISA

Recommended Dilution Ratios

ELISA 1:5000-100000

Storage

Storage* -15°C to -25°C/1 year(Avoid freeze / thaw cycles)**Formulation** Phosphate-buffered solution

Basic Information

Source Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell**Purification** Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell**Clone Number** PN0403

Immunogen Information

Immunogen Purified recombinant Human CD71**Specificity** This recombinant monoclonal antibody can detects endogenous levels of CD71 protein.

Target Information

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)]		
	Organism	Gene ID	UniProt ID
	Human	7037 ;	P02786 ;
Cellular Localization	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 .		
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 ubiquitination and subsequent degradation of the mitofusin MFN2 and inhibition of mitochondrial fusion . When dietary levels of stearate (C18:0) are high, TFRC stearylolation inhibits activation of the JNK pathway and thus degradation of the mitofusin MFN2 . ; (Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo virus.		

Validation Data

Contact information

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Please scan the QR code to access additional product information:
CD71 (PN0403) Nb-FC recombinant antibody

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