CD71/TfR Rabbit pAb

CatalogNo: YT5374

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human	• WB,IHC,IF,ELISA

MW	Isotype
• 85kD (Observed)	• IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC: 1:100-1:300
ELISA 1:20000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from the N-terminal region of human TFRC. AA range:101-150
Specificity	CD71 Polyclonal Antibody detects endogenous levels of CD71 protein.

Target Information

Gene name	TFRC
Protein Name	Transferrin receptor protein 1

Organism	Gene ID	UniProt ID
Human	7037;	P02786;
Mouse		Q62351;

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 .
Tissue specificity	Brain,Epithelium,Erythroleukemia,Eye,Human endometrium carcinoma cell line,Liver,Pl
Function	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.,induction:Regulated by cellular iron levels through binding of the iron regulatory proteins, IRP1 and IRP2, to iron-responsive elements in the 3'-UTR. Up-regulated upon mitogenic stimulation.,miscellaneous:Canine and feline parvoviruses bind human and feline transferrin receptors and use these receptors to enter and infect cells.,miscellaneous:Serum transferrin receptor (sTfR) is used as a means of detecting erythropoietin (EPO) misuse by athletes and as a diagnostic test for anemia resulting from a number of conditions including rheumatoid arthritis, pregnancy, irritable bowel syndrome and in HIV patients.,PTM:N- and O-glycosylated, phosphorylated and palmitoylated. The serum form is only glycosylated.,PTM:Palmitoylated on both Cys-62 and Cys-67. Cys-62 seems to be the major site of palmitoylation.,PTM:Proteolytically cleaved on Arg-100 to produce the soluble serum form (sTfR).,similarity:Belongs to the peptidase M28 family. M28B subfamily.,similarity:Contains 1 PA (protease associated) domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Homodimer; disulfide-linked. Binds one transferrin or HFE molecule per subunit. Binds the HLA class II histocompatibility antigen, DR1. Interacts with SH3BP3. Interacts with Machupo arenavirus GPC.,

Validation Data

Contact information

Orders:	order.cn@immunoway.com
Support:	support.cn@immunoway.com
Telephone:	400-8787-807(China)
Website:	http://www.immunoway.com.cn
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information: **CD71/TfR Rabbit pAb**