

CD71 Recombinant monoclonal antibody

Catalog Number: 81793-14-RR

Basic Information

Catalog Number: 81793-14-RR	GenBank Accession Number: GeneID (NCBI): 7037	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	ENSEMBL Gene ID: ENSG00000072274	CloneNo.: 250738D6
Source: Rabbit	UNIPROT ID: P02786	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:2500-1:10000 IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: transferrin receptor (p90, CD71)	
Immunogen Catalog Number: EG0339	Calculated MW: 85 kDa Observed MW: 90 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, K-562 cells, PC-3 cells
Species Specificity: human	IHC : human tonsillitis tissue, human liver cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF/ICC : K-562 cells,

Background Information

CD71, also known as transferrin receptor protein 1 (TfR1), is a transmembrane glycoprotein composed of two disulfide-linked monomers, each of 90 kDa molecular weight. Each monomer binds one holo-transferrin molecule creating an iron-Tf-TfR complex that enters the cell by endocytosis. CD71 is present on actively proliferating cells and is essential for iron transport into proliferating cells.

Storage

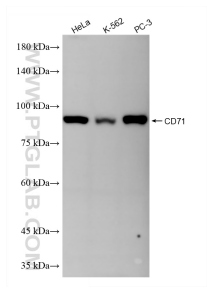
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

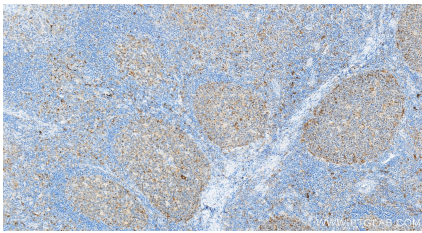
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

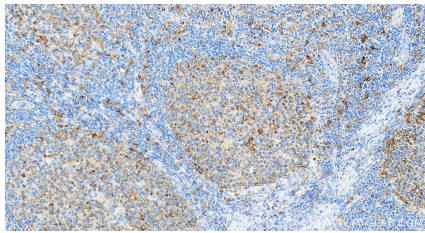
Selected Validation Data



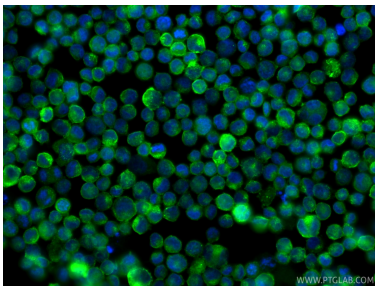
Various lysates were subjected to SDS PAGE followed by western blot with 81793-14-RR (CD71 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



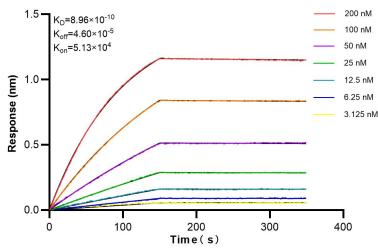
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 81793-14-RR (CD71 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed K-562 cells using CD71 antibody (81793-14-RR, Clone: 250738D6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 81793-14-RR against Human CD71 were performed. The affinity constant is 0.896 nM.