

CD71 Recombinant monoclonal antibody

Catalog Number: 81793-14-RR

Basic Information

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

Applications

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

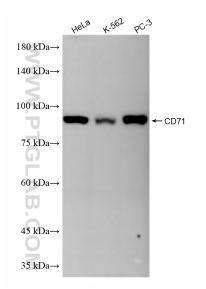
Background Information

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.

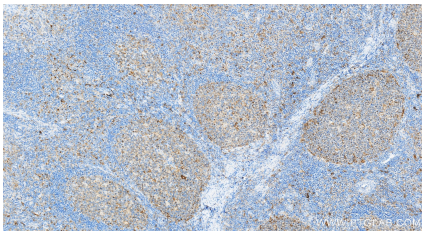
Storage

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

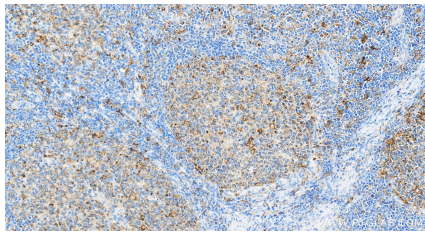
Selected Validation Data



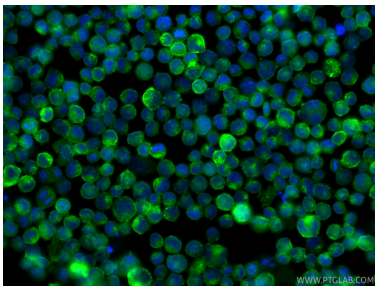
Various lysates were subjected to SDS PAGE followed by western blot with 81793-14-RR (CD71 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



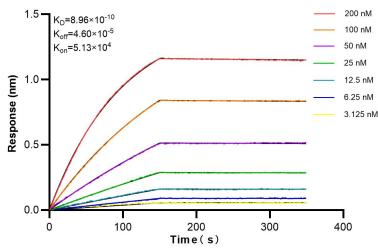
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 81793-14-RR (CD71 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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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.