

For Research Use Only

CD45 Recombinant antibody

Catalog Number: 83396-5-RR



Basic Information

Catalog Number: 83396-5-RR	GenBank Accession Number: NM_001111316.2	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 19264	CloneNo.: 240356G10
Source: Rabbit	UNIPROT ID: P06800-4	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:300-1:1200 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: protein tyrosine phosphatase, receptor type, C	
Immunogen Catalog Number: EG0845	Calculated MW: 145 kDa	
	Observed MW: 220 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: mouse	WB : EL-4 cells, J774A.1 cells, RAW 264.7 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse spleen tissue, mouse colon tissue
	IF/ICC : RAW 264.7 cells,

Background Information

CD45, also known as protein tyrosine phosphatase, receptor type C, is a type I transmembrane protein expressed on the surface of all haematopoietic cells with the exception of erythrocytes and platelets (PMID: 3489673; 28615666). CD45 is a pan-haematopoietic cell marker and has been shown to be essential for T- and B-cell activation and signalling (PMID: 9429890; 16378097).

Storage

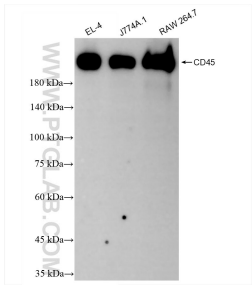
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

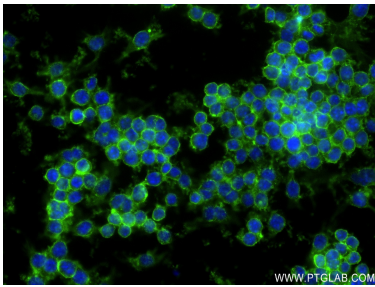
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

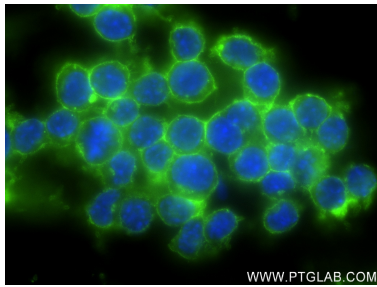
Selected Validation Data



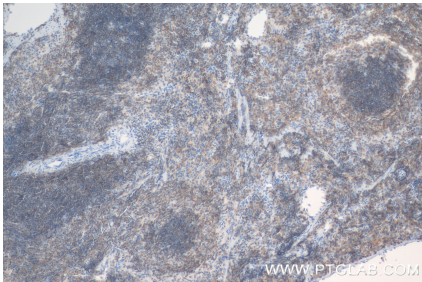
Various lysates were subjected to SDS PAGE followed by western blot with 83396-5-RR (CD45 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



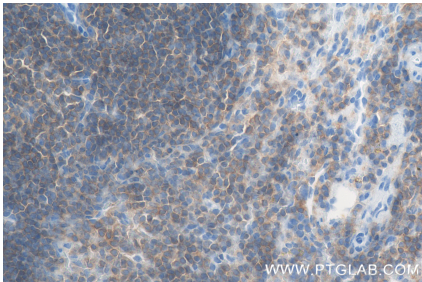
Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using CD45/PTPRC antibody (83396-5-RR, Clone: 240356G10) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



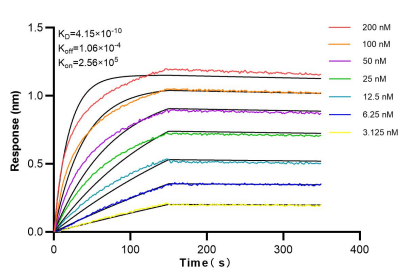
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Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83396-5-RR (CD45 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83396-5-RR (CD45 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83396-5-RR against Mouse CD45 were performed. The affinity constant is 0.415 nM.