

For Research Use Only

CD5 Recombinant antibody

Catalog Number: 83451-4-RR



Basic Information

Catalog Number: 83451-4-RR	GenBank Accession Number: NM_007650.3	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 12507	CloneNo.: 240244C2
Source: Rabbit	UNIPROT ID: P13379	Recommended Dilutions: WB 1:500-1:2000 IHC 1:500-1:2000 IF-P 1:200-1:800
Isotype: IgG	Full Name: CD5 antigen	
	Calculated MW: 54 kDa	
	Observed MW: 55 kDa, 67 kDa	

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : EL-4 cells, mouse thymus tissue

IHC : mouse spleen tissue,

IF-P : mouse spleen tissue,

Background Information

CD5 is a type I transmembrane glycoprotein of the scavenger receptor cysteine-rich family (PMID: 12403363). CD5 is expressed on a majority of thymocytes, mature T cells, B cell subsets, and peripheral blood dendritic cells (PMID: 9858516; 6156984; 10379049; 1384337). CD5 may act as a receptor in regulating T-cell proliferation. It functions as a negative regulator of TCR signaling during thymocyte development (PMID: 7542801).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

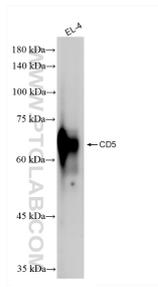
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

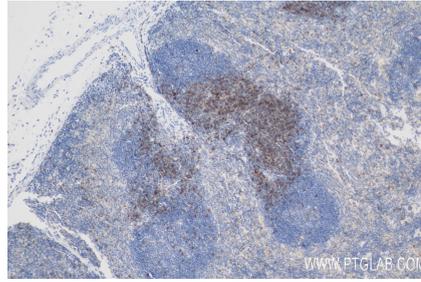
E: proteintech@ptglab.com
W: ptglab.com

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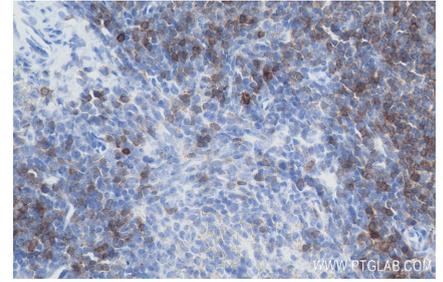
Selected Validation Data



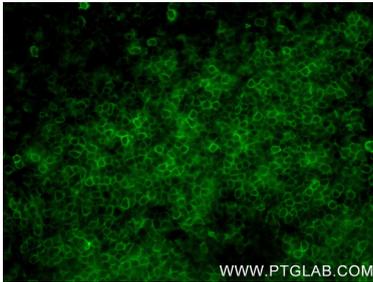
EL-4 cells were subjected to SDS PAGE followed by western blot with 83451-4-RR (CD5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



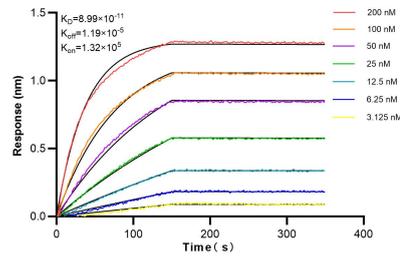
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83451-4-RR (CD5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83451-4-RR (CD5 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD5 antibody (83451-4-RR, Clone: 240244C2) at dilution of 1:400 and CoralLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83451-4-RR against Mouse CD5 were performed. The affinity constant is 89.9 pM.