

For Research Use Only

# Mouse CD5 Recombinant antibody, PBS Only

Catalog Number: 83451-4-PBS



## Basic Information

### Catalog Number:

83451-4-PBS

### Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_007650.3

### GeneID (NCBI):

12507

### UNIPROT ID:

P13379

### Full Name:

CD5 antigen

### Calculated MW:

54 kDa

### Observed MW:

55 kDa, 67 kDa

### Purification Method:

Protein A purification

### CloneNo.:

240244C2

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

mouse

## 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 -80°C.

### Storage Buffer:

PBS Only

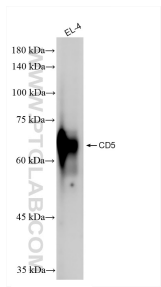
For technical support and original validation data for this product please contact:

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

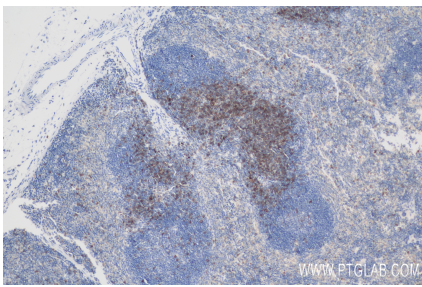
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

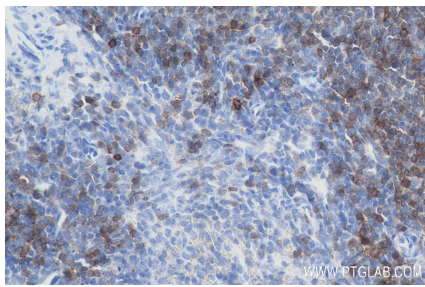
Selected Validation Data



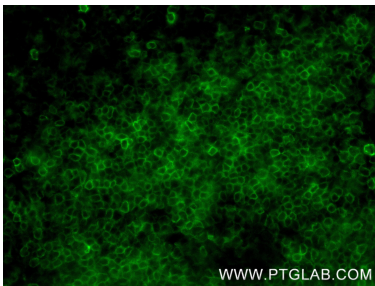
EL-4 cells were subjected to SDS PAGE followed by western blot with 83451-4-RR (CD5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83451-4-PBS in a different storage buffer formulation.



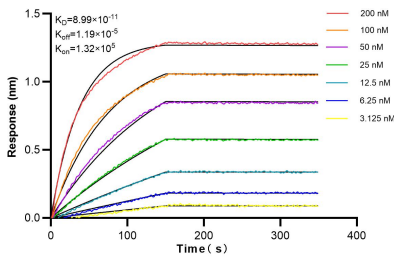
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83451-4-RR (CD5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83451-4-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83451-4-PBS in a different storage buffer formulation.



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 Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83451-4-PBS in a different storage buffer formulation.



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