

For Research Use Only

# CD5 Recombinant antibody

Catalog Number: 83451-4-RR



## Basic Information

### Catalog Number:

83451-4-RR

### Size:

1000 ug/ml

### 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

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:500-1:2000

IF-P 1:200-1:800

## 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

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

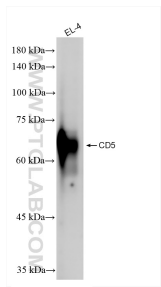
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

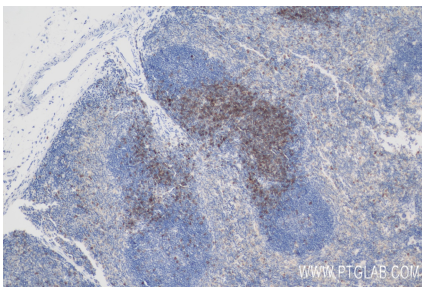
W: [ptgcn.com](http://ptgcn.com)

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

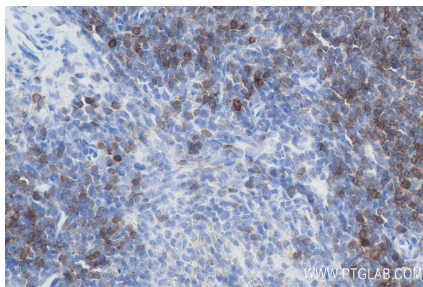
Selected Validation Data



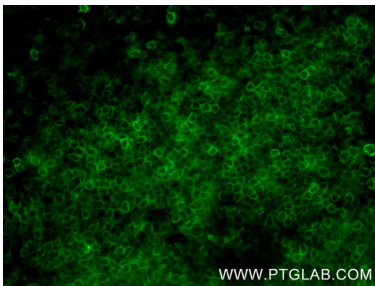
EL-4 cells were subjected to SDS PAGE followed by western blot with 83451-4-RR (CD5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



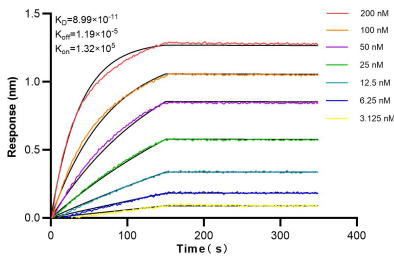
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83451-4-RR (CD5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Coralite®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.