

For Research Use Only

# Mouse CD53 Recombinant antibody, PBS Only

Catalog Number: 85838-3-PBS



## Basic Information

Catalog Number:

85838-3-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2684

GenBank Accession Number:

NM\_007651.3

GeneID (NCBI):

12508

UNIPROT ID:

Q61451

Full Name:

CD53 antigen

Calculated MW:

24 kDa

Observed MW:

35-40 kDa

Purification Method:

Protein A purification

CloneNo.:

250105D10

## Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

mouse

## Background Information

CD53 is also named as MOX44 and Tetraspanin-25 (Tspan-25). Tetraspanin CD53 is a member of the tetraspanin superfamily expressed exclusively within the immune compartment (PMID: 32440787). T cells depend on the phosphatase CD45 to initiate T cell receptor signaling. CD53 is shown to stabilize CD45 on the membrane and is required for optimal phosphatase activity and subsequent Lck activation. Together, CD53 as a regulator of CD45 activity required for T cell immunity (PMID: 35767951). CD53 is a marker for positively selected CD4<sup>+</sup> CD8<sup>+</sup> thymocytes (PMID: 11867561).

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

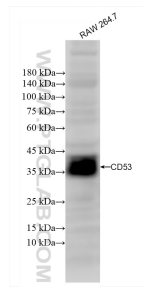
For technical support and original validation data for this product please contact:

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

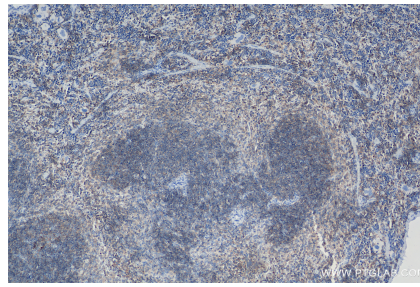
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

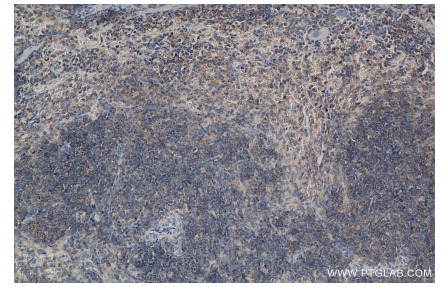
## Selected Validation Data



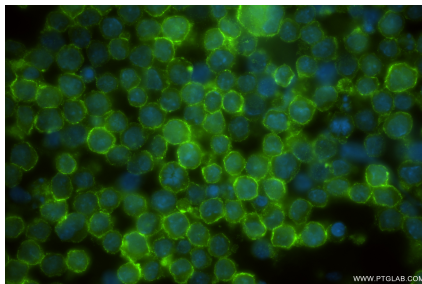
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 85838-3-RR (CD53 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85838-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 85838-3-RR (Cd53 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85838-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 85838-3-RR (Cd53 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85838-3-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A20 cells using Cd53 antibody (85838-3-RR, Clone: 250105D10) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 85838-3-PBS in a different storage buffer formulation.