

For Research Use Only

# Mouse CD45.2 Recombinant antibody, PBS Only

Catalog Number: 84637-1-PBS



## Basic Information

Catalog Number:

84637-1-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2467

GenBank Accession Number:

GeneID (NCBI):

19264

Full Name:

protein tyrosine phosphatase,  
receptor type, C

Observed MW:

200-220 kDa

Purification Method:

Protein A purification

CloneNo.:

241543F9

## Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, Indirect ELISA

Species Specificity:

mouse

## 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). Allelic variants of mouse CD45, CD45.1 (Ly5.1) and CD45.2 (Ly5.2), have been established as a marker system to track haematopoietic cells following congenic mouse bone marrow transplants (PMID: 28615666). CD45.2 is the common form and is expressed by most of the established strains, while CD45.1 is found in only a few like the SJL mouse strain (PMID: 3489673).

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

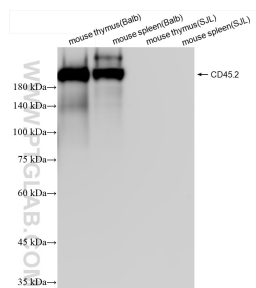
For technical support and original validation data for this product please contact:

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

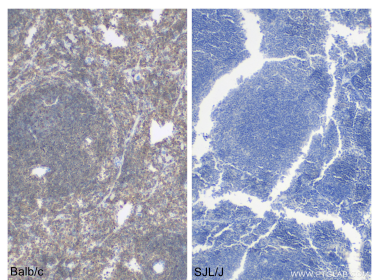
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

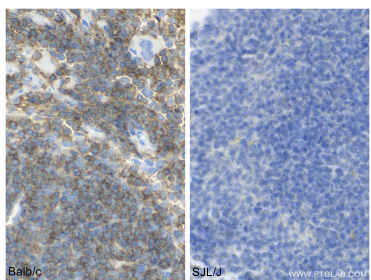
## Selected Validation Data



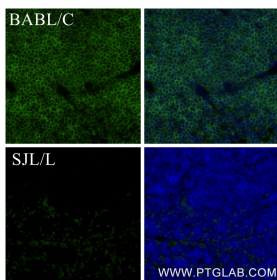
Various lysates were subjected to SDS PAGE followed by western blot with 84637-1-RR (CD45.2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84637-1-PBS in a different storage buffer formulation.



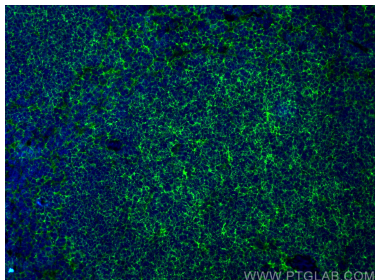
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 84637-1-RR (CD45.2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84637-1-PBS in a different storage buffer formulation.



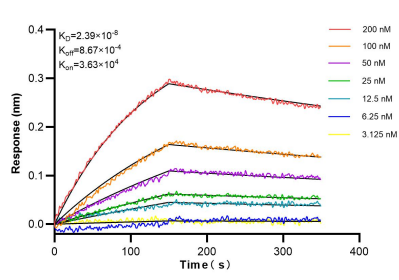
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 84637-1-RR (CD45.2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84637-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD45.2 antibody (84637-1-RR, Clone: 241543F9) 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 84637-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of un-fixed frozen OCT-embedded mouse spleen tissue using CD45.2 antibody (84637-1-RR, Clone: 241543F9) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84637-1-PBS in a different storage buffer formulation.



Bilayer interferometry (BLI) kinetic assays of 84637-1-RR against Mouse CD45.2 were performed. The affinity constant is 23.9 nM.