

For Research Use Only

# Mouse CD49b Recombinant monoclonal antibody, PBS Only

Catalog Number:87503-1-PBS



## Basic Information

Catalog Number:

87503-1-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG10475

GenBank Accession Number:

GeneID (NCBI):

16398

UNIPROT ID:

Q62469

Full Name:

integrin alpha 2

Observed MW:

150-160 kDa

Purification Method:

Protein A purification

CloneNo.:

252736G5

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

Integrins are a large family of  $\alpha/\beta$  transmembrane receptors playing a key role in cell-cell interactions and cell adhesion to the extracellular matrix (PMID: 30374344). CD49b, also known as integrin alpha-2, is a 150 kDa transmembrane glycoprotein expressed on a wide variety of cell types including platelets, megakaryocytes, NK cells, NKT cells, neutrophils, and long-term activated T cells (PMID: 18802064; 2415516). Integrin alpha-2/beta-1 (also known as VLA-2) is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin (PMID: 2557634). It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix.

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

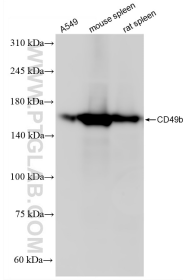
For technical support and original validation data for this product please contact:

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

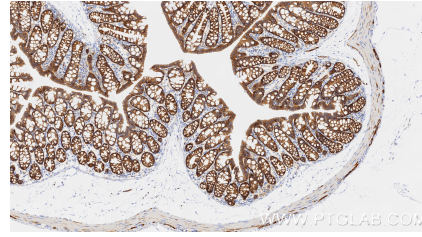
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

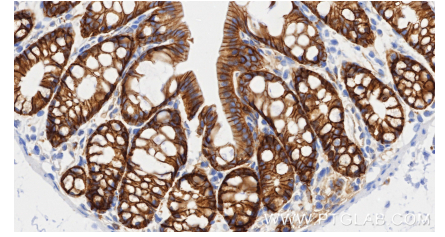
## Selected Validation Data



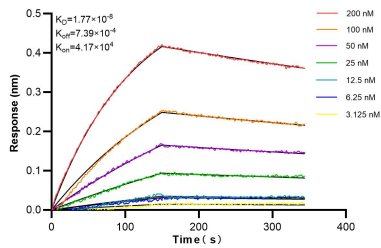
Various lysates were subjected to SDS PAGE followed by western blot with 87503-1-RR (ITA2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87503-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 87503-1-RR (CD49b antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87503-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 87503-1-RR (CD49b antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87503-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87503-1-RR against Mouse CD49b were performed. The affinity constant is 17.7 nM.