

For Research Use Only

# CD49b Polyclonal antibody, PBS Only

Catalog Number:30703-1-PBS



## Basic Information

Catalog Number:

30703-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32771

GenBank Accession Number:

NM\_002203

GeneID (NCBI):

3673

UNIPROT ID:

P17301

Full Name:

integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)

Calculated MW:

126 kDa

Observed MW:

140-150 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human

## Background Information

The integrins are a superfamily of cell adhesion receptors that bind to extracellular matrix ligands, cell-surface ligands, and soluble ligands (PMID: 17543136). They are transmembrane  $\alpha\beta$  heterodimers and at least 24 distinct integrin heterodimers are formed by the combination of 18  $\alpha$  and eight  $\beta$  known subunits (PMID: 17543136; 20029421). In addition to mediating cell adhesion, integrins also play important roles in modulating signal transduction pathways that control cellular responses including migration, proliferation, differentiation, and apoptosis (PMID:19118207). Integrin alpha-2 (ITGA2, CD49b) combines with the beta 1 subunit (ITGB1, CD29) to form a cell-surface receptor (VLA-2) for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin.

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$

Storage Buffer:

PBS only, pH7.3

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

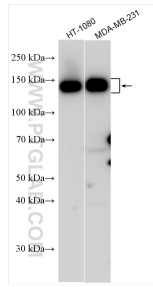
T: 4006900926

E: Proteintech-CN@ptglab.com

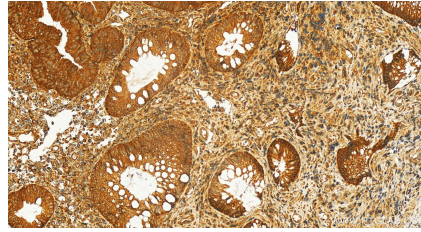
W: ptgcn.com

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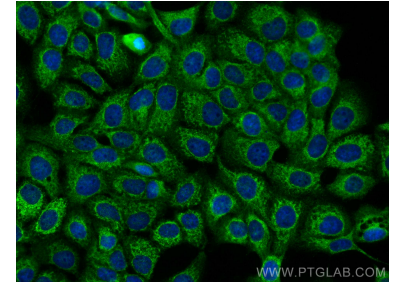
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30703-1-AP (Integrin alpha 2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 30703-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 30703-1-AP (Integrin alpha 2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 30703-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using ITGA2 antibody (30703-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 30703-1-PBS in a different storage buffer formulation.