

For Research Use Only

# Integrin alpha 2 Polyclonal antibody

Catalog Number:30703-1-AP



## Basic Information

<b>Catalog Number:</b> 30703-1-AP	<b>GenBank Accession Number:</b> NM_002203	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3673	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P17301	
<b>Isotype:</b> IgG	<b>Full Name:</b> integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	
<b>Immunogen Catalog Number:</b> AG32771	<b>Calculated MW:</b> 126 kDa	
	<b>Observed MW:</b> 140-150 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HT-1080 cells, A431 cells, HeLa cells, MDA-MB-231 cells <b>IF/ICC :</b> A431 cells,

## 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 -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**

\*\*\* 20ul sizes contain 0.1% BSA

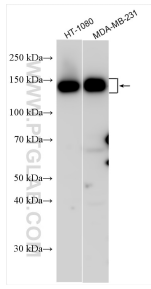
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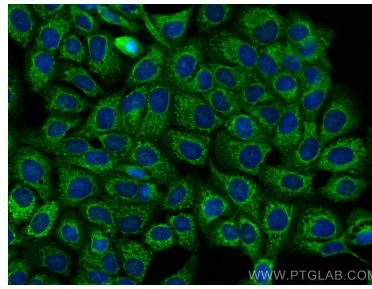
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## Selected Validation Data



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.



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).