

For Research Use Only

Integrin alpha-1 Monoclonal antibody



Catalog Number: 68211-1-Ig

Basic Information

Catalog Number: 68211-1-Ig	GenBank Accession Number: BC137121	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3672	CloneNo.: 1C4F2
Source: Mouse	Full Name: integrin, alpha 1	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2a	Calculated MW: 1179 aa, 131 kDa	
Immunogen Catalog Number: AG30631	Observed MW: 180 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HepG2 cells, human placenta tissue
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 α and eight β 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-1 (ITGA1, CD49a) combines with the beta 1 subunit (ITGB1, CD29) to form a cell-surface receptor for collagen and laminin. This receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis. Integrin alpha-1 is a transmembrane glycoprotein with an apparent molecular weight of 180-250 kDa, larger than the calculated molecular weight of 131 kDa (PMID: 2475259; 3257425; 11557277; 18840653).

Storage

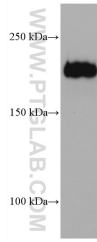
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

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)
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Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 68211-1-Ig (Integrin alpha-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.