

For Research Use Only

Integrin alpha-1 Monoclonal antibody



Catalog Number: 68211-1-Ig

Basic Information

Catalog Number:

68211-1-Ig

Size:

1000 μ g/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG30631

GenBank Accession Number:

BC137121

GeneID (NCBI):

3672

UNIPROT ID:

P56199

Full Name:

integrin, alpha 1

Calculated MW:

1179 aa, 131 kDa

Observed MW:

180 kDa

Purification Method:

Protein A purification

CloneNo.:

1C4F2

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : HepG2 cells, human placenta tissue

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

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

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

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.