

For Research Use Only

Integrin alpha 1 Polyclonal antibody

Catalog Number: 29042-1-AP

2 Publications



Basic Information

Catalog Number: 29042-1-AP	GenBank Accession Number: BC137121	Purification Method: Antigen affinity purification
Concentration: 350 ug/ml	GeneID (NCBI): 3672	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: P56199	IHC 1:300-1:1200
Isotype: IgG	Full Name: integrin, alpha 1	IF-P 1:50-1:500
Immunogen Catalog Number: AG30613	Calculated MW: 1179 aa, 131 kDa	IF-Fro 1:50-1:500
	Observed MW: 180 kDa	

Applications

Tested Applications: WB, IHC, IF-P, IF-Fro, ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, rat lung tissue
Cited Applications: WB	IHC : human placenta tissue, human tonsillitis tissue
Species Specificity: human, rat	IF-P : human placenta tissue,
Cited Species: human	IF-Fro : mouse spleen tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Mengru Bai	39035165	PeerJ	WB
Binbin Li	35950911	Development	WB

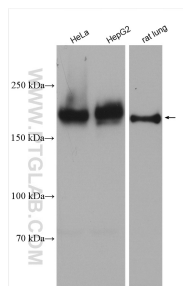
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

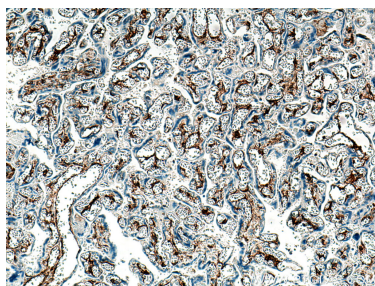
For technical support and original validation data for this product please contact:
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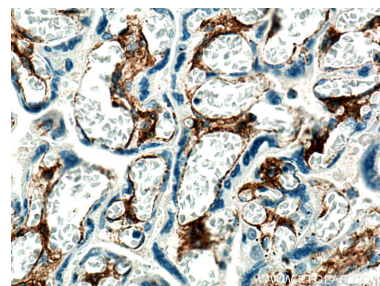
Selected Validation Data



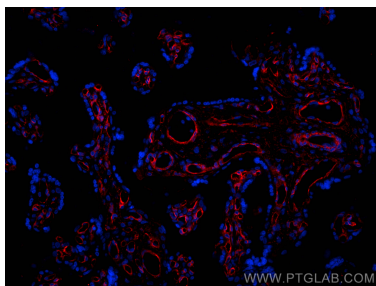
Various lysates were subjected to SDS PAGE followed by western blot with 29042-1-AP (Integrin alpha-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



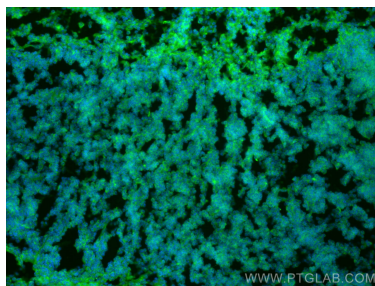
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 29042-1-AP (Integrin alpha-1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 29042-1-AP (Integrin alpha-1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Integrin alpha-1 antibody (29042-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse spleen tissue using Integrin alpha-1 antibody (29042-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).