For Research Use Only

Integrin alpha 6 Polyclonal antibody

Catalog Number:27189-1-AP Featured Product 41 Publications

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Basic Information

Catalog Number:
27189-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG25835

GenBank Accession Number:
BC136456

GeneID (NCBI):
3655

UNIPROT ID:
P23229

Full Name:
integrin, alpha 6

Calculated MW:
1073 aa, 119 kDa

Observed MW:
110-130 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:12000
IHC: 1:500-1:2000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, monkey, bovine, hamster

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, A431 cells, HepG2 cells, mouse lung tissue, Calu-1 cells, SW480 cells, rat lung tissue

IHC : mouse skin tissue, human colon tissue, mouse colon 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 αβ 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 6 (ITGA6, also known as CD49f or VLA-6) is a 120-kDa single-pass type 1 transmembrane glycoprotein, which combines with the beta 1 subunit (ITGB1, CD29) or beta 4 subunit (ITGB4, CD104) to form heterodimeric laminin receptors (PMID: 1976638; 2351695). Integrin alpha 6 mediates cell-to-cell and cell-to-stroma adhesion. It has also been found in many different stem cell populations and is involved in homing and connecting stem cells to their niches and regulating self-renewal mechanisms in stem cells (PMID: 28494695).

Notable Publications

Author	Pubmed ID	Journal	Application
Li Wu	36184060	Vascul Pharmacol	IF
Yuka Mizuno	36311716	Front Immunol	WB
Tianyi Cheng	36336028	Exp Cell Res	WB

Storage

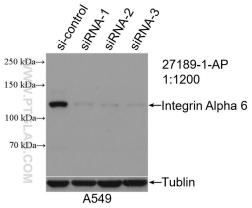
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

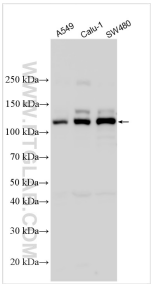
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

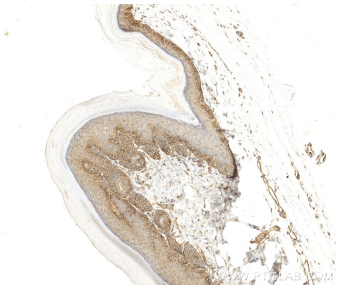
Selected Validation Data



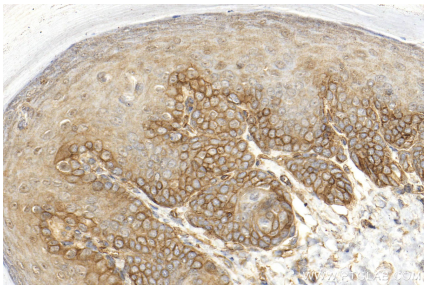
WB result of Integrin Alpha 6 antibody (27189-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-Integrin Alpha 6 transfected A549 cells.



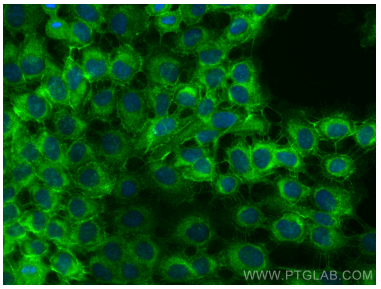
Various lysates were subjected to SDS PAGE followed by western blot with 27189-1-AP (Integrin alpha 6 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 27189-1-AP (Integrin alpha 6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 27189-1-AP (Integrin alpha 6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Integrin alpha 6 antibody (27189-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).