

For Research Use Only

Integrin Alpha V Polyclonal antibody

Catalog Number: 27096-1-AP

Featured Product

32 Publications



Basic Information

Catalog Number:

27096-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25825

GenBank Accession Number:

BC136442

GeneID (NCBI):

3685

UNIPROT ID:

P06756

Full Name:

integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)

Calculated MW:

1048 aa, 116 kDa

Observed MW:

120-130 kDa, 27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IHC: 1:500-1:2000

IF/ICC: 1:250-1:1000

FC: 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, 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: HUVEC cells, A549 cells, MCF-7 cells, human placenta tissue

IHC: human Hepatocellular carcinoma, human breast cancer tissue, human liver cancer tissue, human stomach cancer tissue

IF/ICC: A549 cells,

FC: A549 cells,

Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated alpha and beta subunits. Integrin alpha V, also known as CD51, is a type I transmembrane glycoprotein composed of an extracellular domain, a transmembrane region and cytoplasmic domain (PMID: 2430295; 1690718). It can form heterodimers with one of the five beta integrin subunits (beta 1, 3, 5, 6, 8) that recognize ligands containing the sequence Arg-Gly-Asp, such as vitronectin, fibronectin, and osteopontin (PMID: 37087799). Integrin alpha V mainly plays a role in extracellular matrix-mediated cell adhesion and migration, differentiation, wound healing, inflammation, tumorigenesis, proliferation, angiogenesis, and metastasis.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|---------------|-------------|
| Adrien Presle | 33711249 | Curr Biol | WB |
| Emma Plana | 32605321 | Int J Mol Sci | WB |
| Can Hu | 35166002 | Aging Cell | 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:

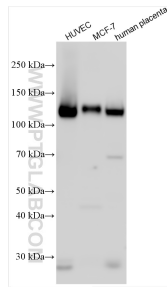
T: 4006900926

E: Proteintech-CN@ptglab.com

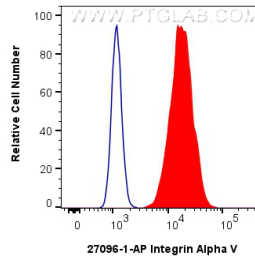
W: ptgcn.com

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

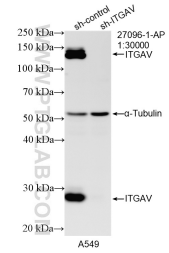
Selected Validation Data



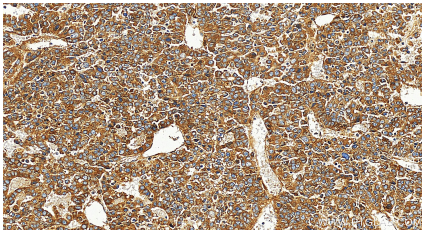
Various lysates were subjected to SDS PAGE followed by western blot with 27096-1-AP (Integrin Alpha V antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



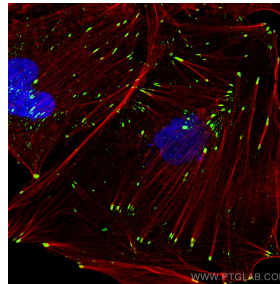
1×10^6 A549 cells were surface stained with 0.25 ug Integrin Alpha V Polyclonal antibody (27096-1-AP) (red) or 0.25 ug Isotype Control (blue), and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Cells were not fixed.



WB result of Integrin Alpha V antibody (27096-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Integrin Alpha V transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded human Hepatocellular carcinoma slide using 27096-1-AP (Integrin Alpha V antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using Integrin Alpha V antibody (27096-1-AP) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).