

For Research Use Only

# Integrin alpha-5/CD49e Polyclonal antibody

Catalog Number: 10569-1-AP

Featured Product

42 Publications



## Basic Information

Catalog Number:

10569-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0860

GenBank Accession Number:

BC008786

GeneID (NCBI):

3678

UNIPROT ID:

P08648

Full Name:

integrin, alpha 5 (fibronectin receptor, alpha polypeptide)

Calculated MW:

115 kDa

Observed MW:

135-150 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IHC: 1:300-1:1200

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, monkey

Cited Species:

human, mouse, rat

**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, 3T3-L1 cells, COS-7 cells, HeLa cells, human placenta tissue, Calu-1 cells, NIH/3T3 cells

IHC : human placenta tissue, human skin cancer tissue

## Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated alpha and beta subunits. Integrin alpha 5 (ITGA5), belongs to the integrin alpha chain family, primarily binds to Integrin beta 1 (ITGB1) to form an  $\alpha 5 \beta 1$  heterodimer (PMID: 33711961). Integrin  $\alpha 5 \beta 1$  is a specific receptor of fibronectin through its arginine-glycine-aspartic acid (RGD) binding site (PMID: 19608542). Integrin  $\alpha 5 \beta 1$  plays roles in cell adhesion, migration and matrix formation, and has emerged as an essential mediator in many human carcinomas (PMID: 33408483).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jun-fu Wang	36193075	Oxid Med Cell Longev	WB,IHC,IF
Chengyun Pan	34733839	Front Cell Dev Biol	WB,IF
Jalal M Kazan	34761192	iScience	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:

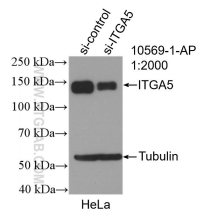
T: 4006900926

E: Proteintech-CN@ptglab.com

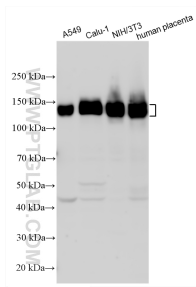
W: ptgcn.com

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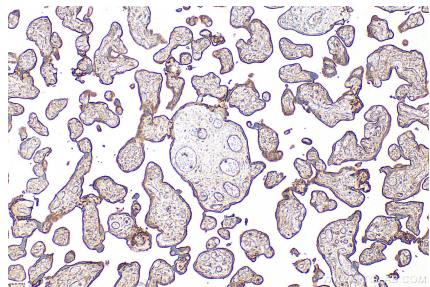
Selected Validation Data



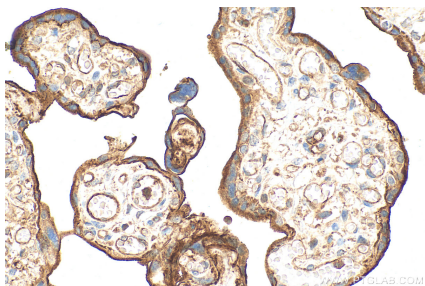
WB result of Integrin alpha-5 antibody (10569-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Integrin alpha-5 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10569-1-AP (Integrin alpha-5/CD49e antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10569-1-AP (Integrin alpha-5 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 10569-1-AP (Integrin alpha-5 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).