

For Research Use Only

# Integrin Beta 4 Polyclonal antibody

Catalog Number: 21738-1-AP

Featured Product

16 Publications



## Basic Information

**Catalog Number:**

21738-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG16450

**GenBank Accession Number:**

BC126411

**GeneID (NCBI):**

3691

**UNIPROT ID:**

P16144

**Full Name:**

integrin, beta 4

**Calculated MW:**

1752 aa, 195 kDa

**Observed MW:**

200-240 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF 1:200-1:800

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

CoIP, IF, IHC, IP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**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:** BxPC-3 cells, A431 cells, A549 cells, HT-29 cells, HeLa cells, MCF-7 cells

**IP:** HeLa cells,

**IHC:** mouse colon tissue, human placenta tissue, human pancreas cancer tissue, human breast cancer tissue

**IF:** A431 cells,

## Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated alpha and beta subunits. Integrin beta-4 is predominantly expressed in squamous epithelial cells, endothelial cells, immature thymocytes, Schwann cells, and fibroblasts of the peripheral nervous system (PMID: 28084395). Integrin beta-4 pairs with alpha-6, and the heterodimeric integrin alpha-6/beta-4 is a receptor for laminin. Integrin alpha-6/beta-4 plays a critical structural role in the hemidesmosome of epithelial cells, and also plays a role in the invasive and metastatic phenotype of various cancers.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yueqi Li	30378153	J Cell Biochem	WB
Hongfei Liu	36293483	Int J Mol Sci	WB,IF
Junya Ning	36203272	Cell Adh Migr	WB

## 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:

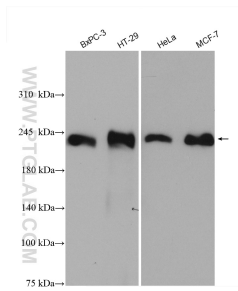
T: 4006900926

E: Proteintech-CN@ptglab.com

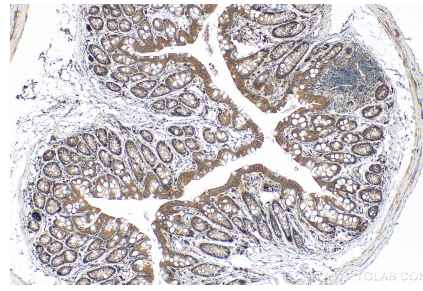
W: ptgcn.com

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

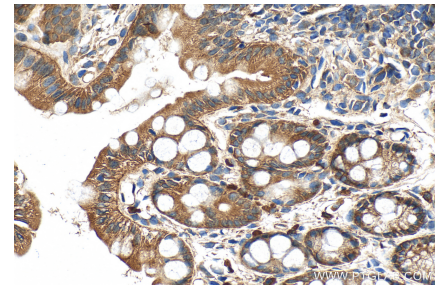
## Selected Validation Data



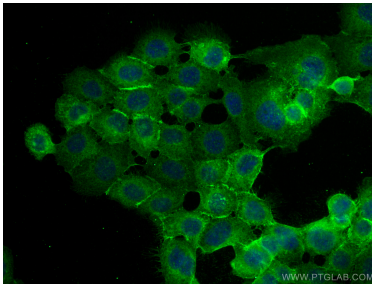
Various lysates were subjected to SDS PAGE followed by western blot with 21738-1-AP (Integrin beta-4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



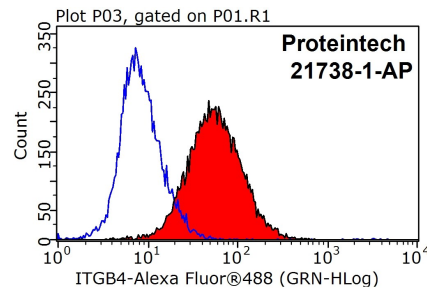
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 21738-1-AP (Integrin Beta 4 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



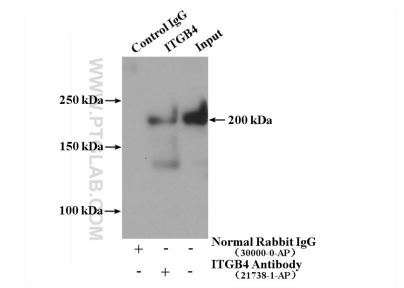
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 21738-1-AP (Integrin Beta 4 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Integrin Beta 4 antibody (21738-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug Integrin beta-4 antibody (21738-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP result of anti-Integrin Beta 4 (IP:21738-1-AP, 4ug; Detection:21738-1-AP 1:500) with HeLa cells lysate 2400ug.