

For Research Use Only

CD61 / Integrin Beta 3 Monoclonal antibody



Catalog Number: 66952-1-Ig

Featured Product

6 Publications

Basic Information

Catalog Number:

66952-1-Ig

Size:

1800 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG27834

GenBank Accession Number:

BC127666

GeneID (NCBI):

3690

UNIPROT ID:

P05106

Full Name:

integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)

Calculated MW:

788 aa, 87 kDa

Observed MW:

100-110 kDa

Purification Method:

Protein A purification

CloneNo.:

3D8E5

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:1000-1:4000

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IP, IHC

Species Specificity:

Human

Cited Species:

human, 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: HUVEC cells, human placenta tissue

IHC: human placenta tissue,

Background Information

Integrin beta-3, also named as CD61 and GPIIIa, is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrin beta-3 recognize the sequence R-G-D in a wide array of ligands and the sequence H-H-L-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen which leads to rapid platelet aggregation which physically plugs ruptured endothelial surface. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. Human integrin beta-3 has a calculated molecular weight of 87 kDa. As a result of glycosylation, the apparent molecular mass of integrin beta-3 is approximately 90-110 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Hiroyuki Yamato	34702952	Sci Rep	WB,IHC
Junxin Mai	35597930	BMC Biotechnol	WB,IP
Xian Tang	33750407	Reprod Biol Endocrinol	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

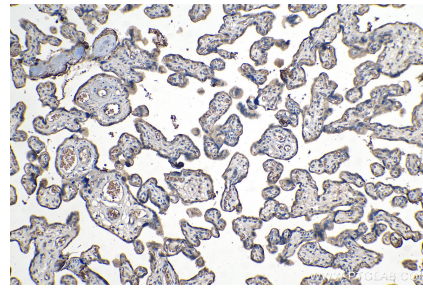
W: ptgcn.com

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

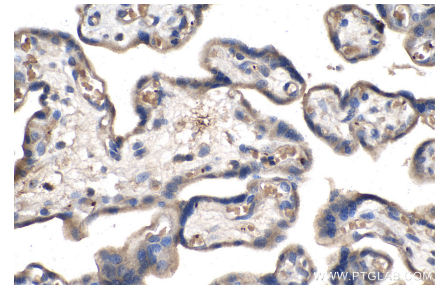
Selected Validation Data



HUVEC cells were subjected to SDS PAGE followed by western blot with 66952-1-Ig (CD61 / Integrin Beta 3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66952-1-Ig (CD61 / Integrin Beta 3 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66952-1-Ig (CD61 / Integrin Beta 3 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).