

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:

150ul, Concentration: 1800 ug/ml by 3690

Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

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:

WB, IHC, 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

*** 20ul sizes contain 0.1% BSA

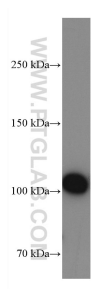
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

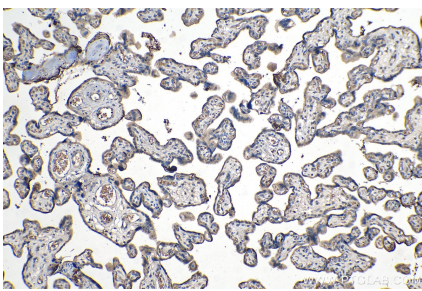
E: proteintech@ptglab.com
W: ptglab.com

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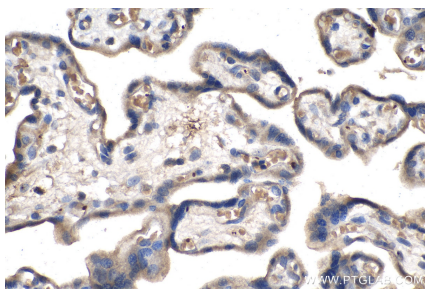
Selected Validation Data



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).