

For Research Use Only

CD61 / Integrin beta 3 Polyclonal antibody

Catalog Number: 18309-1-AP

51 Publications



Basic Information

Catalog Number:

18309-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC127667

GeneID (NCBI):

3690

UNIPROT ID:

P05106

Full Name:

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

Calculated MW:

87 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

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

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, hamster

Positive Controls:

WB: Human peripheral blood platelets, mouse spleen tissue, rat spleen tissue

IP: mouse spleen 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
Yujia Xu	32999280	Cell Death Dis	WB
Chao Cheng	36121292	Appl Immunohistochem Mol Morphol	IHC
Yueqi Li	30378153	J Cell Biochem	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

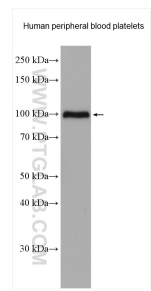
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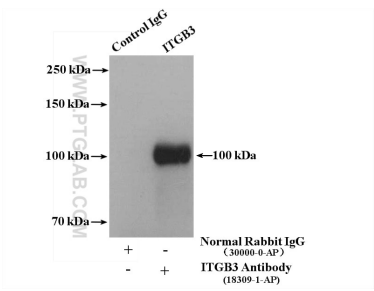
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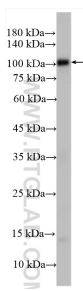
Selected Validation Data



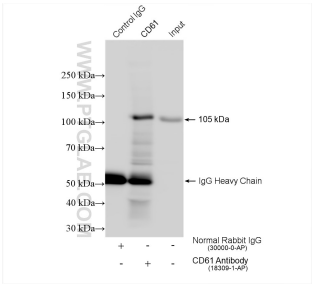
Human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 18309-1-AP (CD61 / Integrin Beta 3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CD61 / Integrin Beta 3 (IP:18309-1-AP, 4ug; Detection:18309-1-AP 1:300) with mouse spleen tissue lysate 5200 ug.



human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 18309-1-AP (CD61 / Integrin Beta 3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-CD61 / Integrin Beta 3 (IP:18309-1-AP, 4ug; Detection:18309-1-AP 1:500) with mouse spleen tissue lysate 1920 ug.