CD61 / Integrin Beta 3 Polyclonal antibody

Catalog Number: 18309-1-AP

Basic Information

Catalog Number: 18309-1-AP
Size: 150μl, Concentration: 700μg/ml by Nanodrop
Source: Rabbit
Isotype: IgG

GenBank Accession Number: BC127667
GeneID (NCBI): 3690
Full Name: Integrin, beta 3 (platelet glycoprotein IIla, 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 μg for IP and 1:200-1:1000 for WB

Applications

Tested Applications:
- IP, WB, ELISA

Cited Applications:
- FC, IF, IHC, IP, WB

Species Specificity:
- human, mouse, rat

Cited Species:
- human, rat, mouse, Hamster

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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yujia Xu</td>
<td>32999280</td>
<td>Cell Death Dis</td>
<td>WB</td>
</tr>
<tr>
<td>Chao Cheng</td>
<td>36121292</td>
<td>Appl Immunohistochem Mol Morphol</td>
<td>IHC</td>
</tr>
<tr>
<td>Yueqi Li</td>
<td>30378153</td>
<td>J Cell Biochem</td>
<td>WB</td>
</tr>
</tbody>
</table>

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

*** 20μl 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 (312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

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