

# CD61 / Integrin Beta 3 Polyclonal antibody

Catalog Number: 18309-1-AP

36 Publications

## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>18309-1-AP                         | <b>GenBank Accession Number:</b><br>BC127667                                     | <b>Purification Method:</b><br>Antigen affinity purification  |
| <b>Size:</b><br>150ul, Concentration: 700 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>3690  | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000<br>IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate |
| <b>Source:</b><br>Rabbit                                     | <b>Full Name:</b><br>integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61) |   |
| <b>Isotype:</b><br>IgG                                       | <b>Calculated MW:</b><br>87 kDa  |   |
|  | <b>Observed MW:</b><br>100 kDa   |   |

## Applications

### Tested Applications:

IP, WB, ELISA

### Cited Applications:

FC, IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, 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

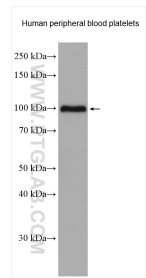
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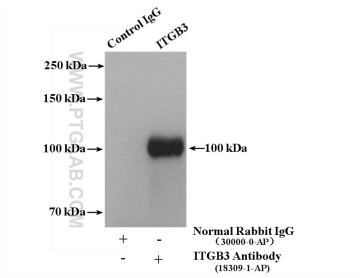
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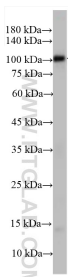
Selected Validation Data



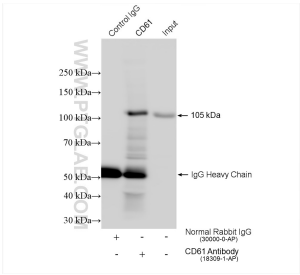
Human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 18309-1-AP (CD61 / Integrin Beta 3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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.