

# CD41/Integrin alpha 2b Polyclonal antibody

Catalog Number: 24552-1-AP

43 Publications

## Basic Information

### Catalog Number:

24552-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG19459

### GenBank Accession Number:

BC126442

### GeneID (NCBI):

3674

### UNIPROT ID:

P08514

### Full Name:

integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)

### Calculated MW:

1039 aa, 113 kDa

### Observed MW:

110-125 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:10000

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

IHC: 1:200-1:800

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, rat, mouse

### Cited Species:

human, mouse, rat, pig

**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: mouse lung tissue, rat blood, mouse spleen tissue, rat spleen tissue, human blood tissue

IP: human plasma tissue,

IHC: mouse spleen tissue, human spleen tissue

## Background Information

The integrins are a superfamily of cell adhesion receptors that bind to extracellular matrix ligands, cell-surface ligands, and soluble ligands (PMID: 17543136). They are transmembrane  $\alpha\beta$  heterodimers and at least 24 distinct integrin heterodimers are formed by the combination of 18  $\alpha$  and eight  $\beta$  known subunits (PMID: 17543136; 20029421). In addition to mediating cell adhesion, integrins also play important roles in modulating signal transduction pathways that control cellular responses including migration, proliferation, differentiation, and apoptosis (PMID:19118207). Integrin alpha-IIb (ITGA2B, CD41) is expressed on platelets, megakaryocytes and some hematopoietic progenitor cells (PMID: 11934866). This protein undergoes post-translational cleavage to yield disulfide linked light (25 kDa) and heavy (125 kDa) chains which join with integrin beta3 (CD61) to form a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. Integrin alpha-IIb/beta-3 is crucial for platelet aggregation through binding of soluble fibrinogen.

## Notable Publications

Author	Pubmed ID	Journal	Application
Congping Su	31619988	Front Pharmacol	WB
Yun Shi	31513785	Biochem Pharmacol	WB
Li Lin	34778054	Front Oncol	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

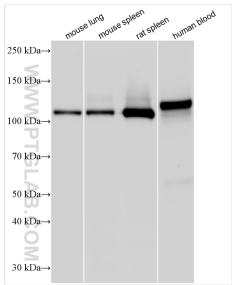
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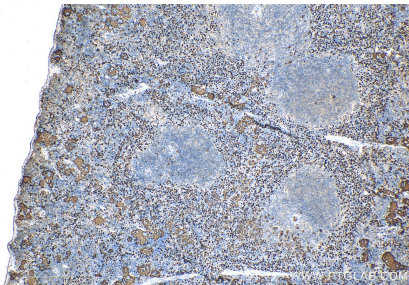
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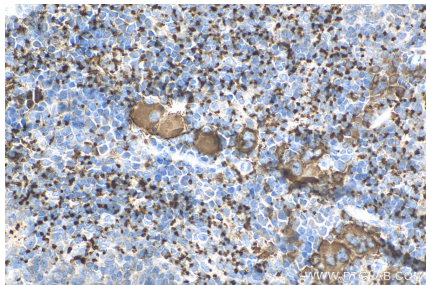
Selected Validation Data



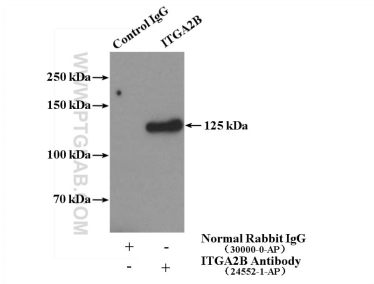
Various lysates were subjected to SDS PAGE followed by western blot with 24552-1-AP (CD41/Integrin Alpha 2B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 24552-1-AP (CD41/Integrin Alpha 2B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 24552-1-AP (CD41/Integrin Alpha 2B antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CD41/Integrin Alpha 2B (IP:24552-1-AP, 4ug; Detection:24552-1-AP 1:2000) with human plasma lysate 4000ug.