

**Anti-ITGA2B Picoband Antibody**  
**Catalog # ABO12333****Specification**

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**Anti-ITGA2B Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P08514</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Integrin alpha-IIb(ITGA2B) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-ITGA2B Picoband Antibody - Additional Information**

**Gene ID** 3674

**Other Names**

Integrin alpha-IIb, GPalpha IIb, GPIIb, Platelet membrane glycoprotein IIb, CD41, Integrin alpha-IIb heavy chain, Integrin alpha-IIb light chain, form 1, Integrin alpha-IIb light chain, form 2, ITGA2B, GP2B, ITGAB

**Calculated MW**

113377 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human<br>

**Subcellular Localization**

Membrane; Single-pass type I membrane protein.

**Tissue Specificity**

Isoform 1 and isoform 2 were identified in platelets and megakaryocytes, but not in reticulocytes or in Jurkat and U-937 white blood cell line. Isoform 3 is expressed by leukemia, prostate adenocarcinoma and melanoma cells but not by platelets or normal prostate or breast epithelial cells.

**Protein Name**

Integrin alpha-IIb

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human ITGA2B (677-711aa EAELAVHLPQGAHYMRALSNVEGFERLICNQKKEN), different from the related mouse sequence by four amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-ITGA2B Picoband Antibody - Protein Information**

**Name** ITGA2B

**Synonyms** GP2B, ITGAB

**Function**

Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain (By similarity). Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen (PubMed: <http://www.uniprot.org/citations/9111081> target="\_blank">9111081</a>). This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface (By similarity).

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Tissue Location**

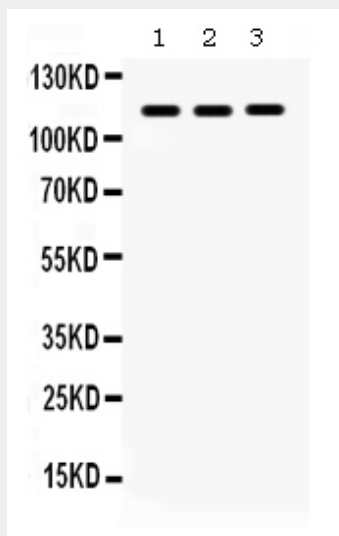
Isoform 1 and isoform 2 are expressed in platelets and megakaryocytes, but not in reticulocytes. Not detected in Jurkat, nor in U937 cell lines (PubMed:2351656). Isoform 3 is expressed in prostate adenocarcinoma, as well as in several erythroleukemia, prostate adenocarcinoma and melanoma cell lines, including PC-3, DU-145, HEL, WM983A, WM983B and WM35. Not detected in platelets, nor in normal prostate (at protein level) (PubMed:9809974)

**Anti-ITGA2B Picoband Antibody - Protocols**

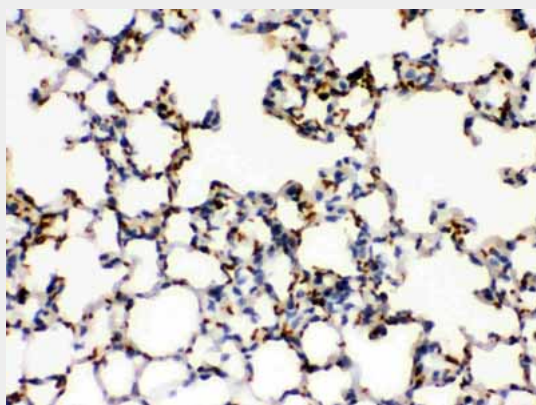
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

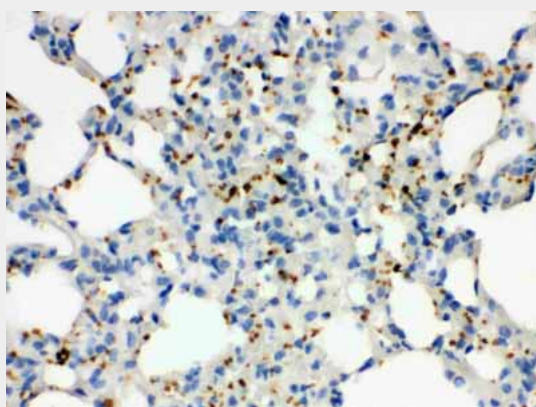
## Anti-ITGA2B Picoband Antibody - Images



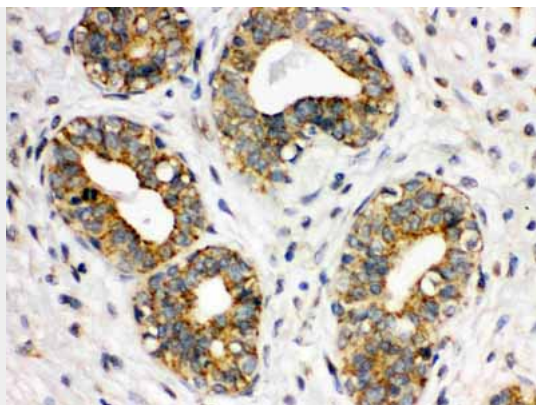
Anti- ITGA2B Picoband antibody, ABO12333, Western blotting  
All lanes: Anti ITGA2B (ABO12333)  
at 0.5ug/ml  
Lane 1: Rat Lung Tissue Lysate at 50ug  
Lane 2: Rat Liver Tissue Lysate at 50ug  
Lane 3: Mouse Spleen Tissue Lysate at 50ug  
Predicted bind size: 113KD  
Observed bind size: 113KD



Anti- ITGA2B Picoband antibody, ABO12333, IHC(P)  
IHC(P): Mouse Lung Tissue



Anti- ITGA2B Picoband antibody, ABO12333, IHC(P)  
IHC(P): Rat Lung Tissue



Anti- ITGA2B Picoband antibody, ABO12333, IHC(P)IHC(P): Human Mammary Cancer Tissue

#### **Anti-ITGA2B Picoband Antibody - Background**

Integrin alpha-IIb is a protein that in humans is encoded by the ITGA2B gene. It is mapped to 17q21.32. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 2b undergoes post-translational cleavage to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibrinogen receptor expressed in platelets that plays a crucial role in coagulation. Mutations that interfere with this role result in thrombasthenia. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling.