

## **Anti-CD11b Picoband Antibody**

**Catalog # ABO11839** 

## **Specification**

# **Anti-CD11b Picoband Antibody - Product Information**

Application WB, IHC
Primary Accession P11215
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for Integrin alpha-M(ITGAM) 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-CD11b Picoband Antibody - Additional Information**

#### **Gene ID 3684**

#### **Other Names**

Integrin alpha-M, CD11 antigen-like family member B, CR-3 alpha chain, Cell surface glycoprotein MAC-1 subunit alpha, Leukocyte adhesion receptor MO1, Neutrophil adherence receptor, CD11b, ITGAM, CD11B, CR3A

## Calculated MW 127179 MW KDa

# **Application Details**

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

### **Subcellular Localization**

Membrane; Single-pass type I membrane protein.

#### **Tissue Specificity**

Predominantly expressed in monocytes and granulocytes.

### **Protein Name**

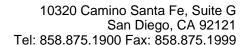
Integrin alpha-M

#### Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

### **Immunogen**

E.coli-derived human CD11b recombinant protein (Position: F17-T382). Human CD11b shares 79% and 61% amino acid (aa) sequences identity with mouse and rat CD11b, respectively.





**Purification** 

Immunogen affinity purified.

**Cross Reactivity** 

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, 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.

**Sequence Similarities** 

Belongs to the integrin alpha chain family.

# **Anti-CD11b Picoband Antibody - Protein Information**

**Name ITGAM** 

Synonyms CD11B, CR3A

#### **Function**

Integrin ITGAM/ITGB2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles and pathogens (PubMed:<a href="http://www.uniprot.org/citations/20008295" target="\_blank">20008295</a>, PubMed:<a href="http://www.uniprot.org/citations/9558116" target="\_blank">9558116</a>). It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin ITGAM/ITGB2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. Regulates neutrophil migration (PubMed:<a href="http://www.uniprot.org/citations/28807980" target="\_blank">28807980</a>). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed:<a href="http://www.uniprot.org/citations/21193407" target="\_blank">21193407</a>). May regulate phagocytosis-induced apoptosis in extravasated neutrophils (By similarity). May play a role in mast cell development (By similarity). Required with TYROBP/DAP12 in microglia to control production of microglial superoxide ions which promote the neuronal apoptosis that occurs during brain development (By similarity).

## **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein

# **Tissue Location**

Predominantly expressed in monocytes and granulocytes (PubMed:1346576). Expressed in neutrophils (at protein level) (PubMed:21193407).

## **Anti-CD11b Picoband Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

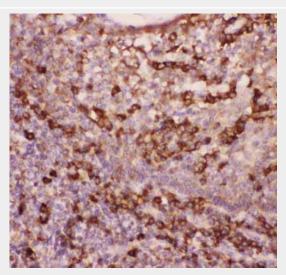


- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# **Anti-CD11b Picoband Antibody - Images**

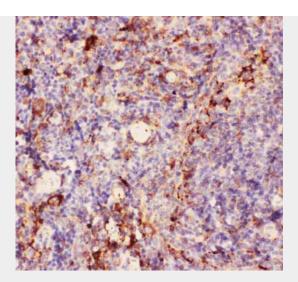
97KD - 58KD - 40KD - 29KD - 20KD - 14KD -

Anti-CD11b Picoband antibody , ABO11839-1.jpgAll lanes: Anti CD11B (ABO11839) at 0.5ug/mlWB: Recombinant Human CD11B Protein 0.5ngPredicted bind size: 45KDObserved bind size: 45KD

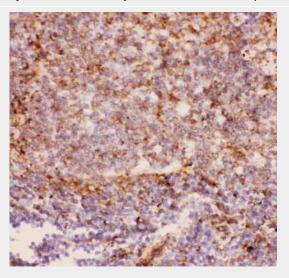


Anti-CD11b Picoband antibody, ABO11839-2.JPGIHC(P): Human Tonsil Tissue





Anti-CD11b Picoband antibody, ABO11839-3.JPGIHC(P): Mouse Spleen Tissue



Anti-CD11b Picoband antibody, ABO11839-4.JPGIHC(P): Rat Spleen Tissue

# Anti-CD11b Picoband Antibody - Background

Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 ( $\hat{1}\pm M\hat{1}^22$ ) molecule, also known as macrophage-1 antigen (Mac-1) or complement receptor 3 (CR3). It is mapped to 16p11.2. ITGAM has a role in vascular repair after mechanical arterial injury. It is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. What's more, ITGAM probably recognizes the R-G-D peptide in C3b, and it is also a receptor for fibrinogen, factor X and ICAM1.