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Anti-CD11b Picoband Antibody

Catalog # ABO10024

Specification

Anti-CD11b Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P05555
Host	**Rabbit**
Reactivity	**Mouse**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Integrin alpha-M(ITGAM) detection. Tested with WB in mouse.

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

Anti-CD11b Picoband Antibody - Additional Information

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, CD11b, Itgam

Calculated MW
127481 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Mouse

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 mouse CD11b recombinant protein (Position: E260-T360). Mouse CD11b shares 82.2% amino acid (aa) sequence identity with human CD11b.

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.**

Anti-CD11b Picoband Antibody - Protein Information

Name Itgam

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 (By similarity). 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. In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (By similarity). 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 (PubMed:18685038).

Cellular Location
Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P11215}. Membrane raft {ECO:0000250|UniProtKB:P11215}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P11215}

Tissue Location
Predominantly expressed in monocytes and granulocytes (PubMed:3887182, PubMed:8986723). Expressed in a subset of peritoneal mast cells (PubMed:9862668). Expressed in microglia (at protein level) (PubMed:18685038).

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
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CD11b Picoband Antibody - Images

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Western blot analysis of CD11b expression in mouse brain extract (lane 1) and HEPA whole cell lysates (lane 1). CD11b at 128KD was detected using rabbit anti- CD11b Antigen Affinity purified polyclonal antibody (Catalog # ABO10024) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-CD11b Picoband Antibody - Background

Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 (Î±MÎ²2) molecule, also known as macrophage-1 antigen (Mac-1) or cluster of differentiation molecule 11B (CD11B). 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.