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Anti-CD11b Antibody
Catalog # ABO11246

Specification

Anti-CD11b 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 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 Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of mouse CD11b(1135-1153aa KRQYKDMMNEAAPQDAPPQ).

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 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).

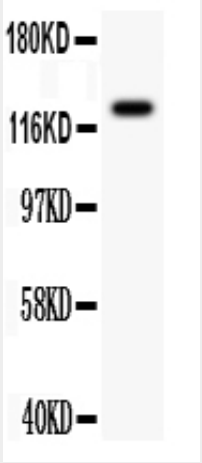
Anti-CD11b Antibody - Protocols

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 Antibody - Images

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Anti- CD11b antibody, ABO11246, Western blottingAll lanes: Anti CD11b(ABO11246) at 0.5ug/mlWB: Mouse Liver Tissue Lysate at 50ugPredicted bind size: 127KDObserved bind size: 127KD

Anti-CD11b Antibody - Background

ITGAM(Integrin Alpha-M), also called CD11B or Mo1 ALPHA SUBUNIT(MO1A), is one protein subunit that forms the heterodimeric integrin alpha-M beta-2(alphaMbeta2) molecule. A major surface antigen family on human leukocytes includes complement receptor type 3(CR3A; also called ITGAM, Mac1, or Mo1), lymphocyte function-associated(LFA) antigen type 1(ITGAL), and p150, 95(ITGAX). By in situ hybridization, Corbi et al.(1988) demonstrated that the genes encoding the alpha subunits of LFA1(ITGAL), Mac1, and p150, 95(ITGAX), all of which are involved in leukocyte adhesion, constitute a cluster on 16p13.1-p11. Callen et al.(1991) narrowed the assignment to 16p11.2. Inflammation plays an essential role in the initiation and progression of atherosclerosis. Simon et al.(2000) presented evidence that it also has a role in vascular repair after mechanical arterial injury(i.e., percutaneous transluminal coronary angioplasty, or PTCA).