

# CD11b Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10668a

## Product Information

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|--------------------------|---------------------------|
| <b>Application</b>       | FC, WB, IHC-P, E          |
| <b>Primary Accession</b> | <a href="#">P11215</a>    |
| <b>Other Accession</b>   | <a href="#">NP_000623</a> |
| <b>Reactivity</b>        | Human, Mouse              |
| <b>Host</b>              | Rabbit                    |
| <b>Clonality</b>         | Polyclonal                |
| <b>Isotype</b>           | Rabbit IgG                |
| <b>Clone Names</b>       | RB17991                   |
| <b>Calculated MW</b>     | 127179                    |
| <b>Antigen Region</b>    | 253-282                   |

## Additional Information

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|---------------------------|---|
| <b>Gene ID</b>            | 3684  |
| <b>Other Names</b>        | 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 |
| <b>Target/Specificity</b> | This CD11b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 253-282 amino acids from the N-terminal region of human CD11b.  |
| <b>Dilution</b>           | FC~~1:10~50 WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.   |
| <b>Format</b>             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                    |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| <b>Precautions</b>        | CD11b Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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| <b>Name</b>     | ITGAM       |
| <b>Synonyms</b> | CD11B, CR3A |

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| <b>Function</b>          | 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="#">20008295</a> , PubMed: <a href="#">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="#">28807980</a> ). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed: <a href="#">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). |
| <b>Cellular Location</b> | Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein   |
| <b>Tissue Location</b>   | Predominantly expressed in monocytes and granulocytes (PubMed:1346576). Expressed in neutrophils (at protein level) (PubMed:21193407).   |

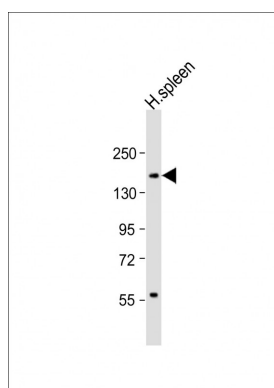
## Background

CD11b is the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles.

## References

Gjelstrup, L.C., et al. J. Immunol. 185(7):4154-4168(2010)  
 Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
 Warchol, T., et al. DNA Cell Biol. (2010) In press :  
 Fan, Y., et al. J Eur Acad Dermatol Venereol (2010) In press :  
 Pliyev, B.K., et al. Biochem. Biophys. Res. Commun. 397(2):277-282(2010)

## Images



Anti-CD11b Antibody (N-term) at 1:500 dilution + human spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 127 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- [Repetitive myocardial ischemia promotes coronary growth in the adult mammalian heart.](#)

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