

CD11b Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10668a**Specification**

CD11b Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P11215](#)**CD11b Antibody (N-term) Blocking peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD11b Antibody (N-term) Blocking peptide - 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: [9558116](http://www.uniprot.org/citations/9558116), PubMed: [20008295](http://www.uniprot.org/citations/20008295)). 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: [28807980](http://www.uniprot.org/citations/28807980)). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed: [21193407](http://www.uniprot.org/citations/21193407)). 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).

CD11b Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CD11b Antibody (N-term) Blocking peptide - Images**CD11b Antibody (N-term) Blocking peptide - 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.

CD11b Antibody (N-term) Blocking peptide - 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)