

Rat CD11b Monoclonal Antibody | anti-ITGAM antibody

CD11b

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62548	Rat	Human, Chimpanzee, Baboon, Cynomolgus, Rhesus, Rabbit and Mouse.	Immunohistochemistry, Immunoprecipitation, Functional Assay, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

CD11b; Monoclonal Antibody; CD11 antigen-like family member B; CD11b/CD18; CD49d; Cell surface glycoprotein MAC-1 subunit alpha; Complement Component Receptor 3 Alpha; CR3 Alpha Chain (CR3A); Integrin alpha-M; Integrin beta 2 alpha subunit; ITGAM; Leukocyte adhesion receptor MO1; Ly-40; Mac-1a; MAC1; Mac1; alpha subunit; MAC1A; Macrophage antigen alpha polypeptide; MO1A; Neutrophil adherence receptor alpha M subunit; anti-ITGAM antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human, Chimpanzee, Baboon, Cynomolgus, Rhesus, Rabbit and Mouse.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	M1/70
Specificity	CD11b is a cell adhesion molecule that acts as a receptor for cell surface ligands such as intracellular adhesion molecules (ICAMs) or soluble ligands. Integrins are heterodimeric proteins that contain an a chain and b chain. Integrin αM combines with the Integrin β2 to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1), or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin αMβ2 is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. The protein CD11b has been implicated in the various adhesion-related interactions of cells such as monocytes, macrophages, natural killer (NK) cells, and granulocytes. It is part of a heterodimer that consists of CD11b and CD18. It also modulates the uptake of complement-coated particles within the cell. It is commonly used as a microglial marker in tissues derived from the nervous system.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1152
Applicable Applications for anti-ITGAM antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), FA (Functional Assay), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Localization	Cell surface
Positive Control	Monocytes & granulocytes. Lymph nodes and tonsils.
Human Chromosomal Location	16p11.2
Immunogen	B10 mouse spleen cells enriched for T lymphocytes
Unigene	172631 (Human)
Preparation and Storage	Store at 2 to 8 degree C. Antibody is stable for 24 months.

ADDITIONAL INFORMATION

References	1. Springer T, et al. 1978. Eur. J. Immunol. 8:539. 2. Ault K and Springer T. 1981. J. Immunol. 126:359. 3. Springer TA, et al. 1982. Immunol. Rev. 68:171. 4. Ho MK and Springer TA. 1983. J. Biol. Chem. 258:2766. 5. Flotte TJ, et al. 1983. Am. J. Pathol. 111:112.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	88501734
NCBI GeneID	3684
NCBI Accession #	NP_000623.2
NCBI GenBank Nucleotide #	NM_000632.3
UniProt Accession #	P11215; Q4VAK0; Q4VAK1; Q4VAK2
Molecular Weight	95kDa; 170kDa
NCBI Official Full Name	integrin alpha-M isoform 2
NCBI Official Synonym Full Names	integrin, alpha M (complement component 3 receptor 3 subunit)
NCBI Official Symbol	ITGAM
NCBI Official Synonym Symbols	CR3A; MO1A; CD11B; MAC-1; MAC1A; SLEB6
NCBI Protein Information	integrin alpha-M; CR-3 alpha chain; antigen CD11b (p170); leukocyte adhesion receptor MO1; CD11 antigen-like family member B; macrophage antigen alpha polypeptide; cell surface glycoprotein MAC-1 subunit alpha; neutrophil adherence receptor alpha-M subunit
UniProt Protein Name	Integrin alpha-M
UniProt Gene Name	ITGAM
UniProt Synonym Gene Names	CD11B; CR3A
UniProt Entry Name	ITAM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd11b-antibody-clone-m1-70-immunohistochemistry-immunoprecipitation-functional-assay-immunofluorescence-flow-cytometry-elisa/62548>