

AM50206PU-T**Monoclonal Antibody to CD11b - Purified**

Alternate names:	CD11 antigen-like family member B, CR-3 alpha chain, CR3A, Cell surface glycoprotein MAC-1 subunit alpha, ITGAM, Integrin alpha-M, Leukocyte adhesion receptor MO1, MAC1, Neutrophil adherence receptor
Quantity:	20 µg
Concentration:	0.2 mg/ml
Uniprot ID:	P11215
NCBI:	9606
GeneID:	3684
Host / Isotype:	Rat / IgG2b
Clone:	M1/70
Immunogen:	B10 Mouse spleen cells enriched for T lymphocytes. Genename: ITGAM
Format:	State: Liquid purified IgG fraction from Bioreactor Concentrate Purification: Protein A/G Chromatography Buffer System: 10mM PBS Preservatives: 0.05% Sodium Azide Stabilizers: 0.05% BSA
Applications:	ELISA: Use BSA free Antibody for coating. Flow Cytometry: 0.5-1 µg/million cells. Immunofluorescence: 0.5-1 µg/ml. Functional Studies: Use Antibody without BSA and Azide. Immunoprecipitation: 0.5-1 µg/500 µg protein lysate. Immunohistochemistry on Frozen Sections: 0.5-1.0 µg/ml for 30 minutes at RT. Positive Control: Monocytes & granulocytes, Lymph nodes and tonsils. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	95kDa & 170kDa
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 αM/β2 is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Cellular Localization: Cell surface. Species: Human, Chimpanzee, Baboon, Cynomolgus, Rhesus, Rabbit and Mouse. Other species not tested.

Storage:

Store undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings:

1. Springer T, Galfrè G, Secher DS, Milstein C. Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. *Eur J Immunol.* 1978 Aug;8(8):539-51. PubMed PMID: 81133.
2. Ault KA, Springer TA. Cross-reaction of a rat-anti-mouse phagocyte-specific monoclonal antibody (anti-Mac-1) with human monocytes and natural killer cells. *J Immunol.* 1981 Jan;126(1):359-64. PubMed PMID: 7451976.
3. Springer TA, Davignon D, Ho MK, Kürzinger K, Martz E, Sanchez-Madrid F. LFA-1 and Lyt-2,3, molecules associated with T lymphocyte-mediated killing; and Mac-1, an LFA-1 homologue associated with complement receptor function. *Immunol Rev.* 1982;68:171-95. PubMed PMID: 6184305.
4. Ho MK, Springer TA. Biosynthesis and assembly of the alpha and beta subunits of Mac-1, a macrophage glycoprotein associated with complement receptor function. *J Biol Chem.* 1983 Mar 10;258(5):2766-9. PubMed PMID: 6338004.
5. Flotte TJ, Springer TA, Thorbecke GJ. Dendritic cell and macrophage staining by monoclonal antibodies in tissue sections and epidermal sheets. *Am J Pathol.* 1983 Apr;111(1):112-24. PubMed PMID: 6340516.