

SM262LE

Monoclonal Antibody to CD11b - Low Endotoxin

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:	0.5 mg
Concentration:	1.0 mg/ml
Background:	The antigen is expressed on most macrophages, including resident and activated peritoneal macrophages and Kupffer cells and around 35% of alveolar macrophages. The antibody also labels dendritic cells, granulocytes and microglial cells in the brain.
Uniprot ID:	Q63001
NCBI:	10116
Host / Isotype:	Mouse / IgG2a
Clone:	OX-42
Immunogen:	Rat peritoneal macrophages. Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma cell line.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.2
Applications:	Immunoprecipitation. Immunohistochemistry on frozen sections: 1/50 - 1/100; Clone MRC OX-42 has been reported as being suitable for use on paraffin-embedded material following PLP fixation (periodate-lysine-paraformaldehyde). Flow Cytometry: 1/50 - 1/100; Use 10ul of the suggested working dilution to label 10e6 cells or 100µl whole blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the equivalent of human CD11b, the receptor for the iC3b component of complement. Functionally, clone OX-42 inhibits complement mediated rosettes. Species: Rat. Other species not tested.
Add. Information:	Endotoxin Level: less than 0.01 EU/µg
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Robinson, A.P. et al. (1986) Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognising complement receptor type 3. <i>Immunology</i> . 57(2): 239 - 247. 2. Barclay AN. The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. <i>Immunology</i> . 1981 Apr;42(4):593-600. PubMed

PMID: 7016746.

3. Milligan CE, Cunningham TJ, Levitt P. Differential immunochemical markers reveal the normal distribution of brain macrophages and microglia in the developing rat brain. *J Comp Neurol.* 1991 Dec 1;314(1):125-35. PubMed PMID: 1797868.

4. Whiteland JL, Nicholls SM, Shimeld C, Easty DL, Williams NA, Hill TJ. Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. *J Histochem Cytochem.* 1995 Mar;43(3):313-20. PubMed PMID: 7868861.