

Product datasheet for **SM262R**

CD11b Mouse Monoclonal Antibody [Clone ID: OX-42]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-42
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 10 ⁶ cells in 100 µl. Note: Clone OX-42 has been reported as being suitable for use on paraffin-embedded material following PLP fixation (periodate-lysine-paraformaldehyde). Functionally, Clone OX-42 inhibits complement mediated rosettes. We recommend the use of SM262LE for use in functional studies.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Rat peritoneal macrophages. Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma cell line.
Specificity:	This antibody Clone OX-42 recognizes the Rat equivalent of Human CD11b, the receptor for the iC3b component of complement. 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. Clone OX-42 is reported to inhibit complement mediated rosettes (<i>Robinson et al.</i> 1986) as well as inhibit myelin binding and uptake (<i>van der Laan et al.</i> 1996).
Formulation:	PBS Label: PE State: Lyophilized purified IgG fraction Stabilizer: 1% BSA and 5% Sucrose Preservative: 0.09% Sodium Azide Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1 ml distilled water.
Purification:	Ion Exchange Chromatography



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Conjugation:	PE
Storage:	Prior to and following reconstitution store undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	Q63001
Background:	CD11b is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement coated particles. It is identical to CR3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the RGD peptide in C3b. CD11b is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. The Mac1 CD11b antigen is present on macrophages, granulocytes, natural killer cells, blood monocytes. CD11b is expressed on 8% spleen cells, 44% bone marrow cells and less than 1% of thymocytes and is commonly used as a microglial marker in nervous tissue.
Synonyms:	ITGAM, CR3A, CR-3 alpha chain, Integrin alpha-M, MAC1