

## Monoclonal Antibody to CD11b - PE

<b>Alternate names:</b>	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
<b>Catalog No.:</b>	SM262R
<b>Quantity:</b>	100 Tests
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">Q63001</a>
<b>NCBI:</b>	<a href="#">10116</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	OX-42
<b>Immunogen:</b>	Rat peritoneal macrophages. Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG <b>Purification:</b> Ion exchange chromatography <b>Buffer System:</b> PBS, pH 7.4, containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1 ml distilled water.
<b>Applications:</b>	Flow cytometry: use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises 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.
<b>Add. Information:</b>	Clone OX-42 has been reported as being suitable for use on paraffin-embedded material following PLP fixation (periodate-lysine-paraformaldehyde).

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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Functionally, clone OX-42 inhibits complement mediated rosettes. We recommend the use of SM262LE for use in functional studies.

**Storage:**

Prior to and following reconstitution store the antibody at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

- General References:**
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. *Immunology*. 57(2): 239-247.
  2. Barclay, A.N. (1981) The localization of population of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. *Immunology*. 42: 593-600.
  3. Milligan, C.E. et al. (1991) Differential immunochemical markers reveal the normal distribution of brain macrophages and microglia in the developing rat brain. *J. Comp. Neurol.* 314: 125-135.

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