

Monoclonal Antibody to CD11b - PE

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
Catalog No.:	SM2199R
Quantity:	100 Tests
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.
Uniprot ID:	P05555
NCBI:	10090
Host / Isotype:	Rat / IgG2b
Clone:	5C6
Immunogen:	Thioglycollate-elicited Peritoneal Macrophages (TPM). Spleen cells from AO rats were fused with cells of the Y3 rat myeloma cell line.
Format:	State: Lyophilized purified IgG fraction. Purification: Ion Exchange Chromatography. Buffer System: PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1 ml distilled water.
Applications:	Flow Cytometry: Use 10 µl of 1/10 diluted 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.

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

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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- Specificity:** SM2199R reacts with mouse complement type 3 receptor (CR3) and precipitates a heterodimer of 165 and 95kD.
Clone 5C6 inhibits adhesion *in vitro* and inflammatory recruitment *in vivo*.
Clone 5C6 also inhibits delayed hypersensitivity, inflammation and potentiates bacterial infections and inhibits type 1 diabetes. Partially prevents LPS induced myelomonocytic cell recruitment.
We recommend the use of SM2199A for this purpose.
Species: Human and Mouse.
Other species not tested.
- Add. Information:** The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.
- Storage:** Store the antibody at 2-8°C.
DO NOT FREEZE!
This product is photosensitive and should be protected from light.
Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf life: one year from despatch.
- General References:** 1. Rosen H and Gordon, S. (1990) The role of the Type 3 Complement Receptor in the induced recruitment of myelomonocytic cells to inflammatory sites in mouse. *Am. J. Respir. Cell. Mol. Biol.* 3: 3-10.

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