

Product datasheet for **SM2199R**

CD11b Rat Monoclonal Antibody [Clone ID: 5C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C6
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/10 diluted antibody to label 10e6 cells in 100 µl.
Reactivity:	Human, Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Thioglycollate-elicited Peritoneal Macrophages (TPM). Spleen cells from AO rats were fused with cells of the Y3 rat myeloma cell line.
Specificity:	SM2199R reacts with mouse complement type 3 receptor (CR3) and precipitates a heterodimer of 165 and 95kD. Clone 5C6 inhibits adhesion <i>in vitro</i> and inflammatory recruitment <i>in vivo</i> . 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.
Formulation:	PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: PE State: Lyophilized purified IgG fraction. Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1 ml distilled water.
Purification:	Ion Exchange Chromatography.
Conjugation:	PE
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.
Stability:	Shelf life: one year from despatch.



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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

Note: The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.