

Product datasheet for **SM2199F**

CD11b Rat Monoclonal Antibody [Clone ID: 5C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C6
Applications:	FC
Recommended Dilution:	Flow Cytometry: The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.
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:	This antibody reacts with 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.
Formulation:	PBS, pH 7.2 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Ion exchange chromatography
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	P05555



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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