

## Product datasheet for **SM3007F**

### CD11b (ITGAM) Mouse Monoclonal Antibody [Clone ID: MEM-174]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-174
Applications:	FC
Recommended Dilution:	Flow Cytometry (use 20 µl to label 10e6 cells or 100 µl whole blood).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human granulocytes
Specificity:	The antibody MEM-174 recognizes CD11b antigen (Mac-1), a 165 kDa transmembrane protein type 1 mainly expressed on monocytes, granulocytes and NK-cells. The CD11b mediates neutrophil and monocyte interactions with stimulated endothelium.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent Label: FITC State: Liquid purified Ig fraction Label: Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated
Conjugation:	FITC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha M
Database Link:	<a href="#">Entrez Gene 3684 Human P11215</a>



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**Background:**

CD11b (integrin  $\alpha$ M subunit) is a 165 kDa type I transmembrane glycoprotein that non-covalently associates with integrin  $\beta$ 2 subunit (CD18); expression of the CD11b chain on the cell surface requires the presence of the CD18 antigen. CD11b/CD18 integrin (Mac-1, CR3) is highly expressed on NK cells, neutrophils, monocytes and less on macrophages. CD11b/CD18 integrin is implicated in various adhesive interactions of monocytes, macrophages and granulocytes, facilitating their diapedesis, as well as it mediates the uptake of complement coated particles, serving as a receptor for the iC3b fragment of the third complement component.

**Synonyms:**

ITGAM, CR3A, CR-3 alpha chain, Integrin  $\alpha$ -M, MAC1