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## CD11b/ITGAM (M1/70) Rat mAb (PE-Cy5<sup>®</sup> Conjugate)



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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP, FC-L	H M	Endogenous	Rat IgG2b kappa	#P11215	3684

### Product Usage Information

For optimal flow cytometry results, we recommend 0.125 µg of antibody per test.

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:160
Flow Cytometry (Live)	1:160

### Storage

Supplied in 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH 7.2. This product is stable for 6 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

### Specificity/Sensitivity

CD11b/ITGAM (M1/70) Rat mAb (PE-Cy5<sup>®</sup> Conjugate) recognizes endogenous levels of total CD11b protein. This antibody detects an epitope within the extracellular domain.

### Source / Purification

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.

### Description

This Cell Signaling Technology antibody is conjugated to PE-Cy5<sup>®</sup> and tested in-house for direct flow cytometric analysis in mouse cells.

### Background

Cluster of differentiation molecule 11b (CD11b)/Integrin alpha M (ITGAM) is a transmembrane protein forming heterodimers that are composed of α and β subunits (1). CD11b is expressed by, and commonly used as a marker for, myeloid lineage cells, including neutrophils, monocytes, macrophages, and microglia (2). CD11b is phosphorylated at Ser1126 (cytoplasmic tail) in neutrophils. Research has shown that this phosphorylation event plays a role for leukocytes traveling from the bloodstream to tissues (3). Furthermore, genome-wide association studies have linked CD11b to autoimmune diseases, such as systemic lupus erythematosus (SLE) (4).

The M1/70 antibody is widely used as a marker for CD11b expression on neutrophils, macrophages, NK cells, and dendritic cells (DC) (5,6).

### Background References

- Solovjov, D.A. et al. (2005) *J Biol Chem* 280, 1336-45.
- Murray, P.J. and Wynn, T.A. (2011) *Nat Rev Immunol* 11, 723-37.
- Fagerholm, S.C. et al. (2006) *Blood* 108, 3379-86.
- Rosetti, F. and Mayadas, T.N. (2016) *Immunol Rev* 269, 175-93.
- Finkelman, F.D. et al. (1996) *J Immunol* 157, 1406-14.
- Holmberg, L.A. et al. (1981) *J Immunol* 127, 1792-9.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Applications Key

**FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

### Cross-Reactivity Key

**H:** Human **M:** Mouse

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