Revision 8

#41249 Store at +4C

CD11b/ITGAM (M1/70) Rat mAb (APC Conjugate)

Cell Signaling TECHNOLOGY®

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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 NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4ºC. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity / Sensitivity

CD11b/ITGAM (M1/70) Rat mAb (APC Conjugate) recognizes endogenous levels of total CD11b protein. This antibody detects an epitope within the extracellular domain.

Species predicted to react based on 100% sequence homology:

Human

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.

Product Description

This Cell Signaling Technology antibody is conjugated to APC 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

1. Solovjov, D.A. et al. (2005) *J Biol Chem* 280, 1336-45.
2. Murray, P.J. and Wynn, T.A. (2011) *Nat Rev Immunol* 11, 723-37.
3. Fagerholm, S.C. et al. (2006) *Blood* 108, 3379-86.
4. Rosetti, F. and Mayadas, T.N. (2016) *Immunol Rev* 269, 175-93.
5. Finkelman, F.D. et al. (1996) *J Immunol* 157, 1406-14.
6. 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 **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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