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#46512**CD11b/ITGAM (M1/70) Rat mAb**

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<b>Applications:</b> IF-F	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rat IgG2b kappa	<b>UniProt ID:</b> #P11215	<b>Entrez-Gene Id:</b> 3684
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<b>Product Usage Information</b>	<b>Application</b> Immunofluorescence (Frozen)	<b>Dilution</b> 1:50 - 1:100
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity/Sensitivity</b>	CD11b/ITGAM (M1/70) Rat mAb recognizes endogenous levels of total CD11b/ITGAM protein. This antibody detects an epitope within the extracellular domain.	
<b>Species predicted to react based on 100% sequence homology</b>	Human	
<b>Source / Purification Background</b>	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. Cluster of differentiation molecule 11b (CD11b)/Integrin alpha M (ITGAM) is a transmembrane protein forming heterodimers that are composed of $\alpha$ and $\beta$ 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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Solovjov, D.A. et al. (2005) <i>J Biol Chem</i> 280, 1336-45.</li> <li>Murray, P.J. and Wynn, T.A. (2011) <i>Nat Rev Immunol</i> 11, 723-37.</li> <li>Fagerholm, S.C. et al. (2006) <i>Blood</i> 108, 3379-86.</li> <li>Rosetti, F. and Mayadas, T.N. (2016) <i>Immunol Rev</i> 269, 175-93.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IF-F:</b> Immunofluorescence (Frozen)
<b>Cross-Reactivity Key</b>	<b>M:</b> Mouse
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