

#56025  
Store at +4C**CD11c (3.9) Mouse mAb (PE Conjugate)**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> FC-FP, FC-L	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P20702	<b>Entrez-Gene Id:</b> 3687
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	<b>Dilution</b> 1:20 1:20
<b>Storage</b>	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 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity/Sensitivity</b>	CD11c (3.9) Mouse mAb (PE Conjugate) recognizes endogenous levels of total CD11c protein. This antibody detects an epitope within the extracellular domain.	
<b>Source / Purification</b>	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.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to PE and tested in-house for direct flow cytometric analysis in human cells.	
<b>Background</b>	CD11c (integrin $\alpha$ X, ITGAX) is a transmembrane glycoprotein that forms an $\alpha\beta$ heterodimer with CD18 (integrin $\beta$ 2), which interacts with a variety of extracellular matrix molecules and cell surface proteins (1). CD11c is primarily used as a dendritic cell marker. Dendritic cells can be classified into two major types: CD11c <sup>+</sup> conventional dendritic cells that specialize in antigen presentation, and CD11c <sup>-</sup> plasmacytoid dendritic cells that specialize in type I interferon production (2, 3). CD11c expression has also been observed on activated NK cells, subsets of B cells, monocytes, granulocytes, and some B cell malignancies including hairy cell leukemia (4-7). The 3.9 antibody is widely used as a marker for CD11c expression on the cell types mentioned above.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Uotila, L.M. et al. (2013) <i>J Biol Chem</i> 288, 33494-9.</li> <li>2. Kohrgruber, N. et al. (1999) <i>J Immunol</i> 163, 3250-9.</li> <li>3. Siegal, F.P. et al. (1999) <i>Science</i> 284, 1835-7.</li> <li>4. Racine, R. et al. (2008) <i>J Immunol</i> 181, 1375-85.</li> <li>5. Werfel, T. et al. (1991) <i>J Immunol</i> 147, 2423-7.</li> <li>6. Cabañas, C. et al. (1988) <i>Hybridoma</i> 7, 167-76.</li> <li>7. Kristensen, J.S. et al. (1987) <i>Blood</i> 70, 1063-8.</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>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>FC-L:</b> Flow Cytometry (Live)	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human	
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