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CD11c (3.9) Mouse mAb (PE-Cy7[®] Conjugate)

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

Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P20702	Entrez-Gene Id: 3687
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	Dilution 1:20 1:20
Storage	Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2. 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	CD11c (3.9) Mouse mAb (PE-Cy7 [®] Conjugate) recognizes endogenous levels of total CD11c 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-Cy7 [®] and tested in-house for direct flow cytometry analysis in human cells.	
Background	CD11c (integrin α X, ITGAX) is a transmembrane glycoprotein that forms an $\alpha\beta$ heterodimer with CD18 (integrin β 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 ⁺ conventional dendritic cells that specialize in antigen presentation, and CD11c ⁻ 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.	
Background References	<ol style="list-style-type: none"> 1. Uotila, L.M. et al. (2013) <i>J Biol Chem</i> 288, 33494-9. 2. Kohrgruber, N. et al. (1999) <i>J Immunol</i> 163, 3250-9. 3. Siegal, F.P. et al. (1999) <i>Science</i> 284, 1835-7. 4. Racine, R. et al. (2008) <i>J Immunol</i> 181, 1375-85. 5. Werfel, T. et al. (1991) <i>J Immunol</i> 147, 2423-7. 6. Cabañas, C. et al. (1988) <i>Hybridoma</i> 7, 167-76. 7. Kristensen, J.S. et al. (1987) <i>Blood</i> 70, 1063-8. 	
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	
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