Revision 5

Store at +4C

#36268

CD11c (3.9) Mouse 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	Endogenous	Mouse IgG1	#P20702	3687

Product Usage Information

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:20
Flow Cytometry (Live)	1:20

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

CD11c (3.9) Mouse mAb (APC 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 APC and tested in-house for direct flow cytometry analysis in human cells.

Background

CD11c (integrin αX, ITGAX) is a transmembrane glycoprotein that forms an α/β heterodimer with CD18 (integrin β2), 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 above mentioned cell types.

Background References

1. Uotila, L.M. et al. (2013) *J Biol Chem* 288, 33494-9.
2. Kohrgruber, N. et al. (1999) *J Immunol* 163, 3250-9.
3. Siegal, F.P. et al. (1999) *Science* 284, 1835-7.
4. Racine, R. et al. (2008) *J Immunol* 181, 1375-85.
5. Werfel, T. et al. (1991) *J Immunol* 147, 2423-7.
6. Cabañas, C. et al. (1988) *Hybridoma* 7, 167-76.
7. Kristensen, J.S. et al. (1987) *Blood* 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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