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CD11c (N418) Hamster mAb (APC-Cy7[®] Conjugate)

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

Applications: FC-L	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Hamster (armenian) IgG	UniProt ID: #Q9QXH4	Entrez-Gene Id: 16411
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Product Usage Information

For optimal flow cytometry results, we recommend 0.25 µg of antibody per test.

Application

Flow Cytometry (Live)

Dilution

1:80

Storage

Supplied in 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH 7.2. 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 (N418) Hamster mAb (APC-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 APC-Cy7[®] and tested in-house for direct flow cytometric analysis in mouse 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 N418 antibody is widely used as a marker for CD11c expression on the cell types mentioned above (8,9).

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.
8. Finkelman, F.D. et al. (1996) *J Immunol* 157, 1406-14.
9. Sadhu, C. et al. (2007) *J Leukoc Biol* 81, 1395-403.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

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