Store at 4°C

#93983

CD11c (N418) Hamster mAb (PerCP-Cy5.5® Conjugate)

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New 06/19

Entrez-Gene ID #16411
UniProt ID #Q9QXH4

For Research Use Only. Not For Use In Diagnostic Procedures.

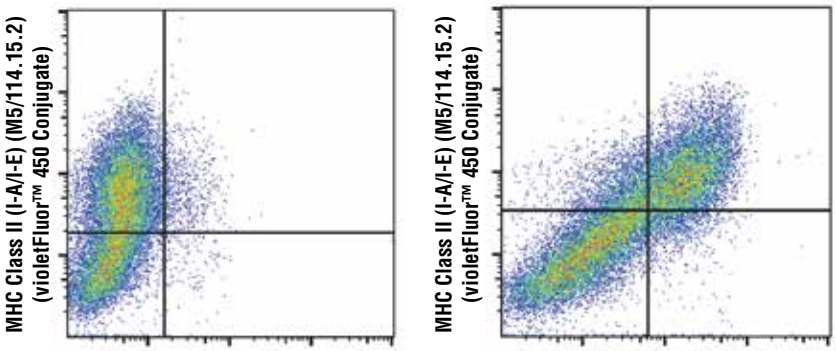
Applications	Species Cross-Reactivity	Isotype
F	M	Armenian Hamster IgG
Endogenous		

Description: This Cell Signaling Technology antibody is conjugated to PerCP-Cy5.5® and tested in-house for direct flow cytometric analysis in mouse 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 N418 antibody is widely used as a marker for CD11c expression on the cell types mentioned above (8,9).

Specificity/Sensitivity: CD11c (N418) Hamster mAb (PerCP-Cy5.5® 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.



Flow cytometric analysis of live mouse bone marrow derived dendritic cells using CD11c (N418) Hamster mAb (PerCP-Cy5.5® Conjugate) and co-stained with MHC Class II (I-A/I-E) (M5/114.15.2) Rat mAb (violetFluor™ 450 Conjugate) #86628 (right), compared to concentration-matched Armenian Hamster Isotype Control (PerCP-Cy5.5® Conjugate) (left).

Storage: Supplied in 10 mM NaH_2PO_4, 150 mM NaCl, 0.09% NaN_3, 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.*

Recommended Antibody Dilutions:

Flow Cytometry	1:80

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

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.

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Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.