

Store at  
4°C

# CD11c (N418) Hamster mAb (PE-Cy7<sup>®</sup> Conjugate)

Cell Signaling  
TECHNOLOGY<sup>®</sup>

#77971

Support: +1-978-867-2388 (U.S.)  
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orders@cellsignal.comEntrez-Gene ID #16411  
UniProt ID #Q9QXH4

New 06/19

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

Applications  
F  
EndogenousSpecies Cross-Reactivity  
MIsotype  
Armenian  
Hamster IgG

**Description:** This Cell Signaling Technology antibody is conjugated to PE-Cy7<sup>®</sup> and tested in-house for direct flow cytometric analysis in mouse cells.

**Background:** 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 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 (PE-Cy7<sup>®</sup> 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.

**Storage:** 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 6 months when stored at 4°C. *Do not aliquot the antibody. Protect from light. Do not freeze.*

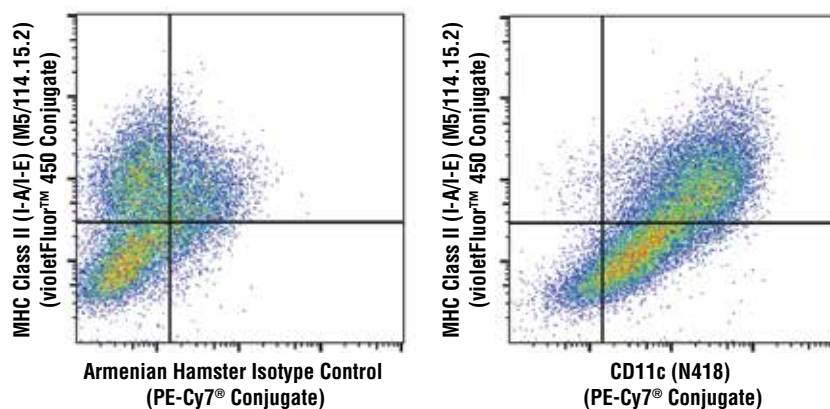
**Recommended Antibody Dilutions:**

Flow Cytometry 1:20

**For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://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.



Flow cytometric analysis of live mouse bone marrow derived dendritic cells using CD11c (N418) Hamster mAb (PE-Cy7<sup>®</sup> Conjugate) and co-stained with MHC Class II (I-A/I-E) (M5/114.15.2) Rat mAb (violetFluor<sup>™</sup> 450 Conjugate) #86628 (right), compared to concentration-matched Armenian Hamster Isotype Control (PE-Cy7<sup>®</sup> Conjugate) (left).

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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.