

PE/Cy7 anti-mouse CD11c

Catalog # / Size: 1186585 / 25 µg
1186590 / 100 µg

Clone: N418

Isotype: Hamster IgG

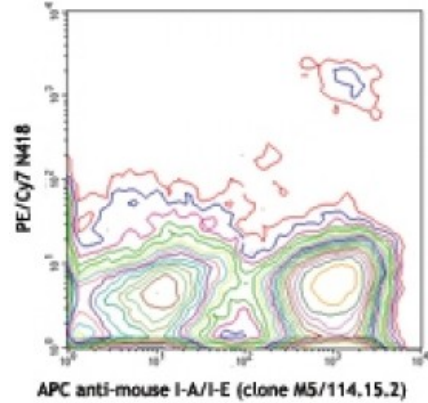
Immunogen: Mouse spleen dendritic cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2

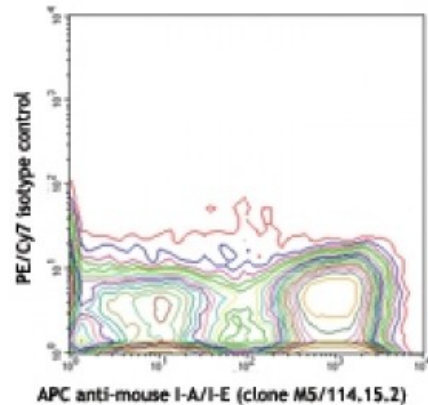


Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for other applications.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation³, immunohistochemical staining of acetone-fixed frozen sections³, and immunofluorescence microscopy^{5, 9} (Alexa Fluor® 488 conjugated N418 was used for IHC in frozen sections¹⁰).



C57BL/6 mouse splenocytes stained with APC anti-mouse I-A/I-E (clone M5/114.15.2) and PE/Cy7 N418 (top) or PE/Cy7 Armenian hamster IgG isotype control (bottom)

Application References:

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 21. Lee MR, *et al.* 2014. *PLoS One.* 9:112666. [PubMed](#)
 22. Schaefer K, *et al.* 2014. *PLoS One.* 9:114824. [PubMed](#)
 23. Stack G, *et al.* 2015. *PLoS Pathog.* 11:1004641. [PubMed](#)
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Description: CD11c is a 150 kD glycoprotein also known as α_X integrin, CR4, and p150. CD11c forms a $\alpha_X\beta_2$ heterodimer with β_2 integrin (CD18). It is primarily expressed on dendritic cells, NK cells, a subset of intestinal intraepithelial lymphocytes (IEL), and some activated T cells. The $\alpha_X\beta_2$ integrin plays an important role in cell-cell contact by binding its ligands: iC3b, fibrinogen, and CD54.

Antigen
References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen Facts Book Academic Press.
2. Springer TA. 1994. *Cell* 76:301.
3. Lopez-Rodriguez C, *et al.* 1996. *J. Immunol.* 156:3780.