

APC anti-mouse CD11c

Catalog # / 1186550 / 100 µg
Size: 1186545 / 25 µg

Clone: N418

Isotype: Hamster IgG

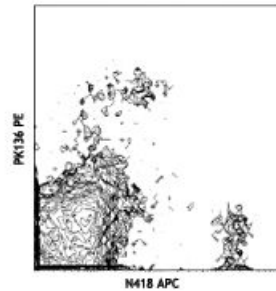
Immunogen: Mouse spleen dendritic cells

Reactivity: Mouse

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

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

Concentration: 0.2



C57BL/6 mouse splenocytes stained with N418 APC and PK136 PE

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 million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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).

- Application References:**
1. Granucci F, et al. 1997. *J. Immunol.* 159:1794.
 2. Stokes RW, et al. 1998. *J. Immunol.* 160:5514.
 3. Metlay JP, et al. 1990. *J. Exp. Med.* 171:1753. (IHC, IP)
 4. Ma XT, et al. 2006. *Cancer Research* 66:1169.
 5. Chin RK, et al. 2006. *J. Immunol.* 177:290. (IF)
 6. Cervantes-Barragan L, et al. 2007. *Blood* 109:1131. (FC) [PubMed](#)
 7. Turnquist HR, et al. 2007. *J. Immunol.* 178:7018. (FC) [PubMed](#)
 8. Benson MJ, et al. 2007. *J. Exp. Med.* doi:10.1084/jem.20070719. (FC) [PubMed](#)
 9. You Y, et al. 2009. *J. Immunol.* 182:7343. (IF) [PubMed](#)
 10. Roland CL, et al. 2009. *Mol. Cancer Res.* 8:1761. (IHC, FC) [PubMed](#)
 11. Wikstrom M, et al. 2006. *J. Immunol.* 177:913. [PubMed](#)
 12. Pericolini E, et al. 2008. *J. Leukocyte Biol.* 83:1286. [PubMed](#)
 13. Randall LM, et al. 2008. *Infect. Immun.* 76:3312. [PubMed](#)
 14. Fahlen-Yrild L, et al. 2009. *J. Immunol.* 183:5032. [PubMed](#)
 15. Osterholzer JJ, et al. 2009. *J. Immunol.* 183:8044. [PubMed](#)
 16. Bankoti J, et al. 2010. *Toxicol. Sci.* 115:422. (FC) [PubMed](#)
 17. Eisenach PA, et al. 2010. *J Cell Sci.* 123:4182. [PubMed](#)
 18. Leppin K, et al. 2014. *Invest. Ophthalmol. Vis. Sci.* 55:3603. [PubMed](#)
 19. Sakai F, et al. 2014. *PLoS One.* 9:105370. [PubMed](#)
 20. Gibbins JD, et al. 2014. *Blood.* 124:2953. [PubMed](#)
 21. White CE, et al. 2015. *J Immunol.* 194:697. [PubMed](#)
 22. Lu X, et al. 2015. *J Immunol.* 194:2011. [PubMed](#)

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.