SONY

Product Data Sheet

Brilliant Violet 711™ anti-mouse CD11c

Catalog # / Size: 1186745 / 50 µg

Clone: N418

Isotype: Hamster IgG

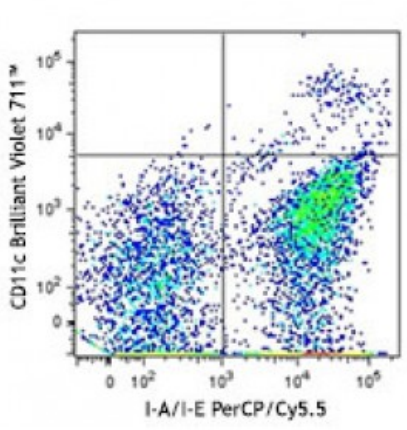
Immunogen: Mouse spleen dendritic cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with mouse I-A/I-E PerCP/Cy5.5 and CD11c (clone N418) Brilliant Violet 711™.

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 ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

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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 sections[10]).

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
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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
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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

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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.