# Anti-Mouse CD11c Antibody, Clone N418

## Antibodies

Catalog #60002

Hamster (Armenian) monoclonal IgG antibody against mouse CD11c, unconjugated

500 µg 0.5 mg/mL

STEMCELL™ TECHNOLOGIES
Scientists Helping Scientists™ | WWW.STEMCELL.COM
TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713
INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM
FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

## Product Description

The N418 antibody reacts with CD11c (αX integrin), a 150 kDa type 1 transmembrane glycoprotein that associates non-covalently with CD18 (β2 integrin) to form a heterodimeric cell surface adhesion receptor. Through its interaction with ligands such as iC3b, fibrinogen and CD54 the CD11c/CD18 receptor is involved in several immune response processes, including cell migration, stimulation of cytokine production by monocytes and macrophages, T cell proliferation, leukocyte recruitment and phagocytosis. In mice, CD11c is expressed on dendritic cells, macrophages, monocytes, granulocytes, NK cells and a subset of T cells.

| | |
|---|---|
| Target Antigen Name: | CD11c |
| Alternative Names: | alphaX integrin, CR4, integrin alphaX chain, p150 |
| Gene ID: | 16411 |
| Species Reactivity: | Mouse |
| Host Species: | Hamster (Armenian) |
| Clonality: | Monoclonal |
| Clone: | N418 |
| Isotype: | IgG |
| Immunogen: | Mouse spleen dendritic cells |
| Conjugate: | Unconjugated |

## Applications

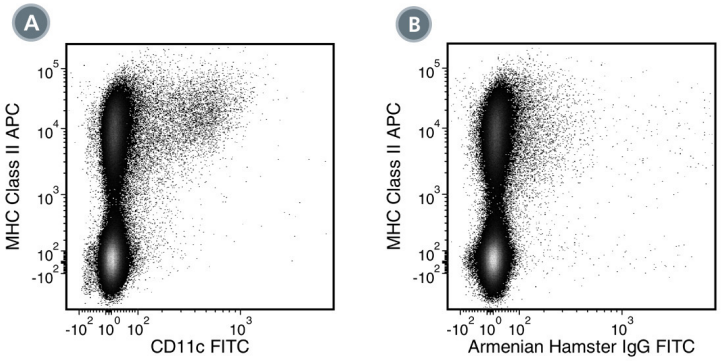
| | |
|---|---|
| Verified: | CellSep, FC |
| Reported: | CyTOF®, FC, ICC, IF, IHC, IP |
| Special Applications: | This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD11c Positive Selection Kit II (Catalog #18780). |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

| | |
|---|---|
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide |
| Purification: | The antibody was purified by affinity chromatography. |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com. |
| Directions for Use: | For flow cytometry the suggested use of this antibody is ≤ 1 µg per 1 x 10^6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application. |

## Data




(A) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD11c Antibody, Clone N418, followed by anti-hamster (Armenian) IgG, FITC and anti-mouse MHC class II, APC.
(B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with a hamster (Armenian) IgG, isotype control antibody followed by anti-hamster (Armenian) IgG, FITC and anti-mouse MHC class II, APC.

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

## References

1. Grewal JS et al. (2011) Salivary glands act as mucosal inductive sites via the formation of ectopic germinal centers after site-restricted MCMV infection. FASEB J 25(5): 1680–96. (IF, IHC)
2. Bankoti J et al. (2010) Effects of TCDD on the fate of naive dendritic cells. Toxicol Sci 115(2): 422–34. (FC)
3. Roland CL et al. (2009) Inhibition of vascular endothelial growth factor reduces angiogenesis and modulates immune cell infiltration of orthotopic breast cancer xenografts. Mol Cancer Ther 8(7): 1761–71. (FC, IHC)
4. You Y et al. (2009) Cutting edge: Primary and secondary effects of CD19 deficiency on cells of the marginal zone. J Immunol 182(12): 7343–7. (IF, IHC)
5. Cervantes-Barragan L et al. (2007) Control of coronavirus infection through plasmacytoid dendritic-cell-derived type I interferon. Blood 109(3): 1131–7.(FC)
6. Turnquist HR et al. (2007) Rapamycin-conditioned dendritic cells are poor stimulators of allogeneic CD4+ T cells, but enrich for antigen-specific Foxp3+ T regulatory cells and promote organ transplant tolerance. J Immunol 178(11): 7018–31. (FC)
7. Chin RK et al. (2006) Lymphotoxin pathway-directed, autoimmune regulator-independent central tolerance to arthritogenic collagen. J Immunol 177(1): 290–7. (IF, IHC)
8. Kishimoto T. (1998) Leukocyte Typing VI. White Cell Differentiation Antigens T. Kishimoto, ed., New York: Garland Publishing Inc.
9. Barclay AN et al. (1997) The Leucocyte Antigen FactsBook A. Barclay, ed., New York: Academic Press.
10. Metlay JP et al. (1990) The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med 171(5): 1753–71. (FA/Blocking, FC, IHC, IP)