

Anti-Mouse CD11c Antibody, Clone N418, PE

Antibodies

Hamster (Armenian) monoclonal IgG antibody against mouse CD11c, PE-conjugated

Catalog #60002PE
#60002PE.1

200 µg 0.2 mg/mL
50 µg 0.2 mg/mL



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Product Description

The N418 antibody reacts with CD11c (α X integrin), a 150 kDa type 1 transmembrane glycoprotein that associates non-covalently with CD18 (β 2 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:	PE (Phycoerythrin)

Applications

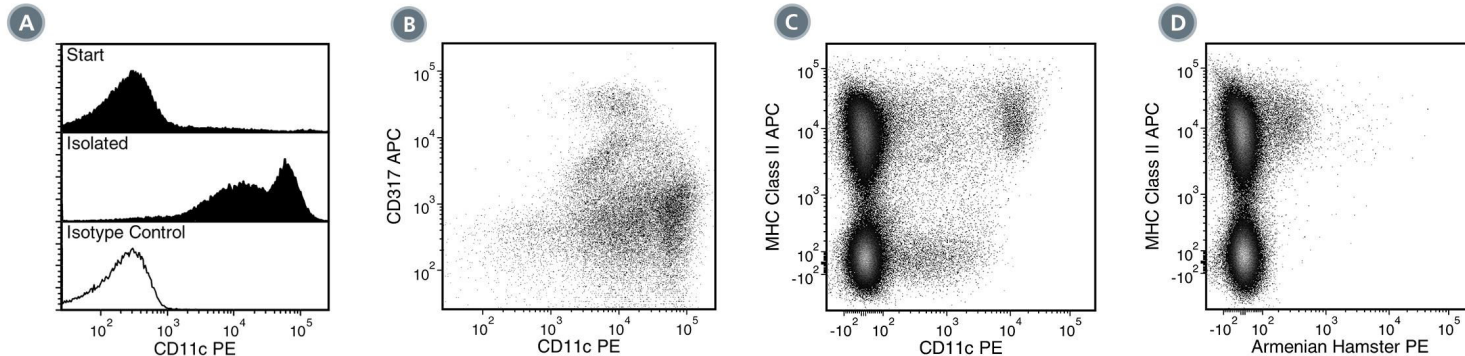
Verified:	CellSep, FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD11c Positive Selection Kit II (Catalog #18780).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; 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 and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	For flow cytometry, the suggested use of this antibody is ≤ 0.25 µg per 1×10^6 cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of C57BL/6 mouse splenocytes processed with EasySep™ Mouse CD11c Positive Selection Kit II and labeled with Anti-Mouse CD11c Antibody, Clone N418, PE. Histograms show labeling of splenocytes (Start) and isolated cells (Isolated). Labeling of the start cells with an Armenian hamster IgG PE isotype control antibody is shown in the bottom panel (solid line histogram).

(B) Flow cytometry analysis of C57BL/6 mouse splenocytes processed with EasySep™ Mouse CD11c Positive Selection Kit II and labeled with Anti-Mouse CD11c Antibody, Clone N418, PE and an anti-mouse CD317 antibody, APC.

(C) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD11c Antibody, Clone N418, PE and an anti-mouse MHC class II antibody, APC.

(D) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with an Armenian hamster IgG PE isotype control antibody and an anti-mouse MHC class II antibody, 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

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