Antibodies

Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488

Hamster (Armenian) monoclonal IgG antibody against mouse CD11c, Alexa Fluor® 488-conjugated

Catalog #60002AD.1	25 µg	0.5 mg/mL
#60002AD	100 µg	0.5 mg/mL

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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, integrin alphaX chain, CR4, p150
Gene ID:	16411
Species Reactivity:	Mouse
Host Species:	Hamster (Armenian)
Clonality:	Monoclonal
Clone:	N418
Isotype:	IgG
Immunogen:	Mouse spleen dendritic cells
Conjugate:	Alexa Fluor® 488

Applications

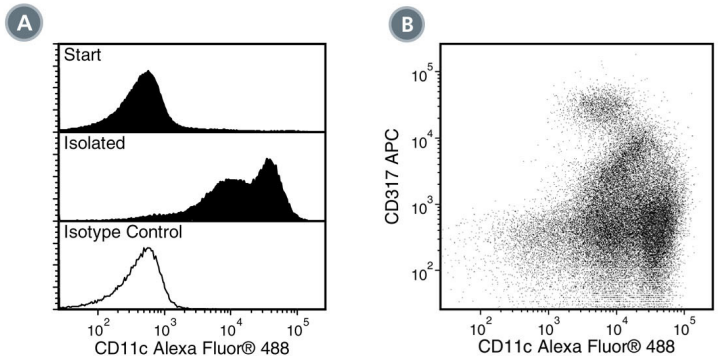
Verified:	FC
Reported:	FC, ICC, IF, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD11c Positive Selection Kit (Catalog #18758) and EasySep™ Mouse CD11c Positive Selection Kit II (Catalog #18780).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; 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 Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.
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 request a lot-specific Certificate of Analysis from techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤0.25 µg per 1 x 10e6 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 processed with the EasySep™ Mouse CD11c Positive Selection Kit II and labeled with Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488. Histograms show labeling of splenocytes (Start) and isolated cells (Isolated). Labeling of the start cells with an Armenian hamster IgG Alexa Fluor® 488 isotype control antibody is shown in the bottom panel (open histogram).
(B) Flow cytometry analysis of C57BL/6 mouse splenocytes processed with the EasySep™ Mouse CD11c Positive Selection Kit II and labeled with Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488 and anti-mouse CD317, APC.

Related Products

PRODUCT NAME	CATALOG #	SIZE
Anti-Mouse CD11c Antibody, Clone N418	60002	Coming soon
Anti-Mouse CD11c Antibody, Clone N418, PE	60002PE.1	50 µg
Anti-Mouse CD11c Antibody, Clone N418, PE	60002PE	200 µg
Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488	60002AD.1	25 µg
Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488	60002AD	100 µg

References

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