# Mouse CD11c Alexa Fluor® 594-conjugated Antibody

Monoclonal Hamster IgG Clone # N418
Catalog Number: FAB69501T
100 µg

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse CD11c. |
| **Source** | Monoclonal Hamster IgG Clone # N418 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Mouse spleen dendritic cells |
| **Conjugate** | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm |
| **Formulation** | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Flow Cytometry** | 0.25-1 µg/$10^6$ cells | Mouse splenocytes |

## PREPARATION AND STORAGE

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| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Protect from light. Do not freeze.**<br>● 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

CD11c, also known as the Integrin αX subunit, is a 150 kDa type I transmembrane protein that noncovalently heterodimerizes with the β2 subunit (CD18) to form αX/β2, also known as p150/p95 and complement receptor type 4 (CR4). Integrin αXβ2 is expressed on macrophages, dendritic cells, hairy cell leukemias and some other leukocyte subsets. The 1097 aa mouse CD11c extracellular domain shares 71% and 87% amino acid (aa) identity with human and rat CD11c, respectively. One potential αX isoform is truncated at aa 828. Some adhesion partners of αXβ2 are shared with αMβ2/CD11b/CD18 (Complement iC3b, ICAMs, vWF and Fibrinogen) while others (Osteopontin, Thy-1, Plasminogen, Heparin) are unique. Unlike αMβ2, it is not constitutively active. αXβ2 adhesion mediates proliferation, degranulation, chemotactic migration, and phagocytosis of complement-opsonized particles.

**References:**


1. Metlay, J.P. *et al.* (1990) J. Exp. Med. **171**:1753.


## PRODUCT SPECIFIC NOTICES

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