# Mouse CD11c Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat $IgG_{2B}$ Clone # 435421

Catalog Number: FAB6950R

100 µg

## DESCRIPTION

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| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse CD11c in direct ELISAs and Western blots. In direct ELISAs, 50%-100% cross-reactivity with recombinant human (rh) Integrin αXβ2 and recombinant mouse (rm) Integrin αL is observed, 10%-25% cross-reactivity with rhIntegrin |
| **Source** | Monoclonal Rat $IgG_{2B}$ Clone # 435421 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Chinese hamster ovary cell line CHO-derived recombinant mouse CD11c<br>Phe20-Pro1116<br>Accession # Q9QXH4 |
| **Conjugate** | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<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.*

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| **Western Blot** | Optimal dilution of this antibody should be experimentally determined. |
| **Immunohistochemistry** | Optimal dilution of this antibody should be experimentally determined. |

## 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. 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.

## PRODUCT SPECIFIC NOTICES

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