

DESCRIPTION

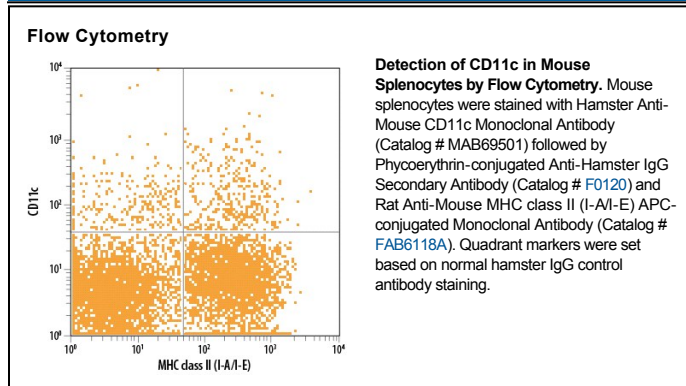
Species Reactivity	Mouse
Specificity	Detects mouse CD11c.
Source	Monoclonal Hamster IgG Clone # N418
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse spleen dendritic cells
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	2.5 µg/10 ⁶ cells	See Below
CyTOF-reported	Lee, H. <i>et al.</i> (2015) <i>Mucosal Immunol.</i> 8 : 1083. Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 αXβ2, 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.