

**DESCRIPTION**

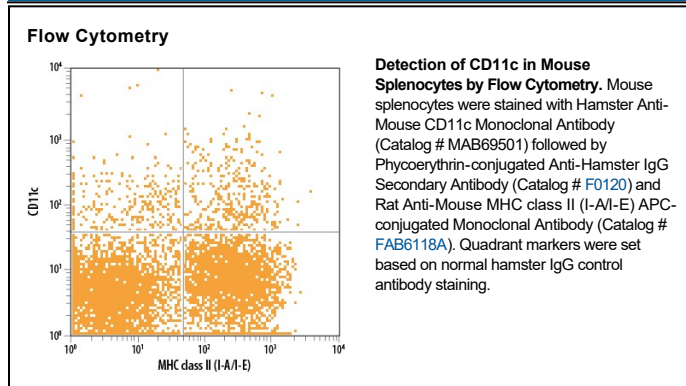
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD11c.
<b>Source</b>	Monoclonal Hamster IgG Clone # N418
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse spleen dendritic cells
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered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

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-reported</b>	Lee, H. <i>et al.</i> (2015) Mucosal Immunol. 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**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.