

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD11c.
Source	Monoclonal Mouse IgG ₁ Clone # ICRF 3.9
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Rheumatoid synovial fluid cells and human monocyte-derived fibronectin
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm 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. *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	Human whole blood monocytes

PREPARATION AND STORAGE

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD11c, also known as Integrin αX, is an approximately 150 kDa type I transmembrane glycoprotein that heterodimerizes with Integrin β2, also known as CD18. The CD11c/CD18 complex, also called CR4 (complement receptor type 4) is expressed on macrophages, dendritic cells and hairy cell leukemias, with lower amounts on other myeloid cells and activated B, NK and some cytotoxic T cells. It binds fibrinogen and has been reported to be a receptor for complement component iC3b (1-3). The human CD11c extracellular domain (amino acids 20-1107) shares 70 - 76% amino acid sequence identity with mouse, rat and canine CD11c.

References:

- Hogg, N. *et al.* (1986) *Eur. J. Immunol.* **16**(3):240.
- Knapp, W.B. *et al.* eds. (1989) *Leukocyte Typing IV: White Cell Differentiation Antigens*, Oxford University Press, New York.
- Stacker, S.A. and T.A. Springer, *J. Immunol.* (1991) **146**(2):648.

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