Mouse Integrin αM/CD11b PE-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # M1/70

Catalog Number: FAB1124P

100 TESTS, 25 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin αM/CD11b. Cross-reaction with human Integrin αM has been reported (1, 2).
Source	Monoclonal Rat IgG_{2B} Clone # M1/70
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Con A-activated C57BL/10 splenocytes
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied 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.

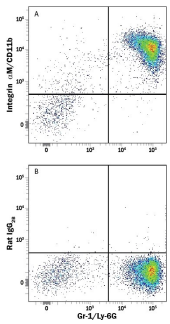
APPLICATIONS

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	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of Integrin αM/CD11b in Mouse Bone Marrow Cells by Flow Cytometry. Mouse bone marrow cells were stained with Rat Anti-Mouse Gr-1/Ly-6G APC-conjugated Monoclonal Antibody (Catalog # FAB1037A) and either (A) Rat Anti-Mouse Integrin αM/CD11b PE-conjugated Monoclonal Antibody (Catalog # FAB1124P) or (B) Rat IgG_{2B} Phycoerythrin Isotype Control (Catalog # IC013P). View our protocol for Staining Membrane-associated Proteins.

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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The Integrin family proteins are heterodimeric transmembrane receptors composed of an α and a β subunit. The Integrin αM subunit, also known as MAC-1α subunit or CD11b, combines with the Integrin β2 subunit (CD18) to form the non-covalent heterodimer Integrin αM/β2, also known as MAC-1 and complement receptor type 3 (CR3). Integrin αM/β2 is expressed on granulocytes, macrophages, dendritic cells and natural killer cells. Upon activation, αM/β2 can bind several ligands (including ICAM-1, fibrinogen, and the C3 complement fragment, C3bi) to mediate phagocyte adhesion, migration and ingestion of complement-opsonized particles.

References:

1. Beller, D.J. *et al.* (1982) J. Exp. Med. **156**:1000.
2. Ault, K.A. and T.A. Springer (1981) J. Immunol. **126**:359.

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