

DESCRIPTION

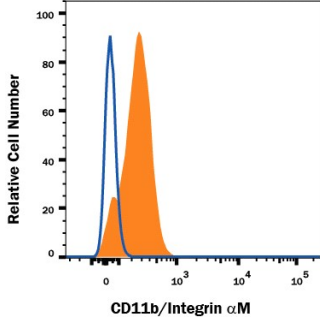
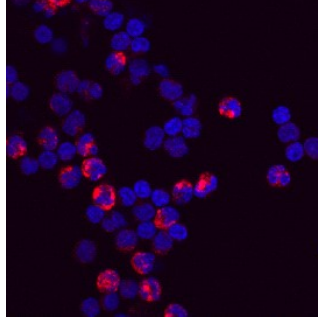
Species Reactivity	Human
Specificity	Detects human CD11b/Integrin αM.
Source	Monoclonal Mouse IgG ₁ Clone # ICRF44
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human rheumatoid synovial cells and monocytes
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
Immunocytochemistry	8-25 μg/mL	See Below
CyTOF-reported	Miner, J.J. <i>et al.</i> (2015) <i>Arthritis and Rheumatol.</i> 67 : 1214. Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Immunohistochemistry	Myones, B. <i>et al.</i> (1988) <i>J. Clin Invest.</i> 82 : 640. This clone is not recommended for paraffin-embedded sections.	

DATA

<p>Flow Cytometry</p>  <p>Detection of CD11b/Integrin alpha M in Human Blood Monocytes by Flow Cytometry. Human peripheral blood monocytes were stained with Mouse Anti-Human CD11b/Integrin alpha M Monoclonal Antibody (Catalog # MAB1699, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunocytochemistry</p>  <p>CD11b/Integrin αM in Human PBMCs. CD11b/Integrin αM was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Human CD11b/Integrin αM Monoclonal Antibody (Catalog # MAB1699) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

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.