InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

FITC Anti-Mouse/Human CD11b

Catalog Number: 201211, 201212
Size: 25 tests, 100 tests
Target Name: CD11b, ITGAM, integrin ?M, CR3
Regulatory Status: RUO

Product Details

Clone: M1/70
Application: FC
Reactivity: Human, Mouse
Format: FITC
Isotype: Rat IgG2b
Antibody Type: Monoclonal
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
Protein Concentration: Supplied at a lot-specific concentration.
Storage and Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Recommended Usage: For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.
Excitation Laser: Blue Laser (488 nm)

Background Information

CD11b, also known as integrin ?M or ITGAM, is a type I transmembrane glycoprotein with a molecular weight of approximately 170 kDa under reducing conditions (165 kDa non-reducing) and contains 19 potential N-glycosylation sites. CD11b associates with CD18 (integrin ?2) to form the heterodimeric integrin Mac-1 (CD11b/CD18), also referred to as ?M?2, CR3 (complement receptor 3), iC3b receptor, or Mo-1. The assembly of CD11b with CD18 is required for its surface expression and function. CD11b/CD18 is one of four integrins formed by pairing the ?2 chain (CD18) with different ? chains (CD11a–d). Mac-1 plays an essential role in cell adhesion, migration, and phagocytosis by binding to ligands including ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen. CD11b is highly expressed on NK cells, neutrophils, monocytes, macrophages, dendritic cells, and at lower levels on subsets of T and B lymphocytes. Through these interactions, CD11b/CD18 contributes to leukocyte trafficking, complement-mediated clearance, and modulation of innate and adaptive immune responses.

Product Data

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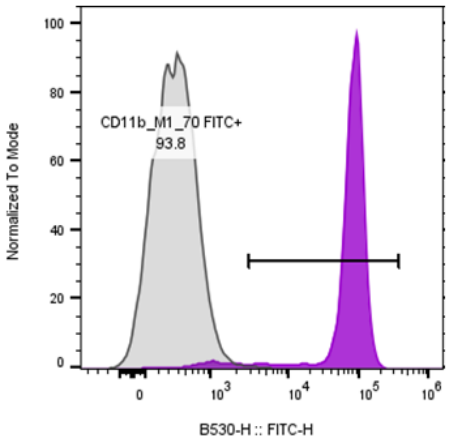

Mouse bone marrow cells stained with FITC Anti-Mouse/Human CD11b clone M1/70 (Blue histogram) or an isotype control (gray histogram).