

## Technical Data Sheet

### APC Anti-Mouse/Human CD11b

**Catalog Number:** 201213, 201214

**Size:** 25 tests, 100 tests

**Target Name:** CD11b, ITGAM, integrin  $\alpha$ M, CR3

**Regulatory Status:** RUO

#### Product Details

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**Clone:** M1/70

**Application:** FC

**Reactivity:** Human, Mouse

**Format:** APC

**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&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  $\mu$ L of this reagent per 0.5-1.0 million cells in a 100  $\mu$ L volume. Optimal reagent performance should be determined by titration for each specific application.

**Excitation Laser:** Red Laser (633 nm)

**Release Date:** Dec-25

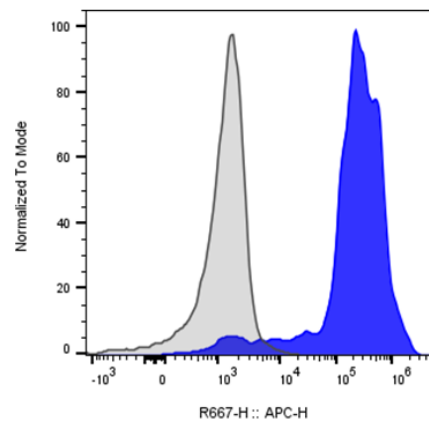
#### Background Information

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CD11b, also known as integrin  $\alpha$ 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  $\alpha$ 2) to form the heterodimeric integrin Mac-1 (CD11b/CD18), also referred to as  $\alpha$ M $\beta$ 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  $\beta$ 2 chain (CD18) with different  $\alpha$  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 were stained with either APC Anti-Human/Mouse CD11b clone M1/70 (color-filled histogram) or an isotype control (gray histogram).