

## Technical Data Sheet

### Anti-Mouse/Human CD11b

**Catalog Number:** 201201, 201202

**Size:** 100 ug, 500 ug

**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:** Purified

**Isotype:** Rat IgG2b

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

**Protein Concentration:** 0.5 mg/mL

**Storage and Handling:** The antibody solution should be stored between 2°C and 8°C

#### 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.