

## **CD11b (HI11b) Antibody**

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 250945

**Unit:** 0.1 mg

### **Description:**

The CD11b (HI11b) antibody recognizes the 165-kDa integrin  $\alpha$ M-chain associated with CD18, the 95-kDa integrin  $\beta$ 2, which form a heterodimer glycoprotein called CD11b/CD18 (Mac-1). Leukocytes express four CD11/CD18 integrins which include a common  $\beta$ 2 subunit and distinctive  $\alpha$  chains. Besides CD11b/CD18, the other three integrins are known as CD11a/CD18, CD11c/CD18 and CD11d/CD18. Expression of the CD11b subunit on the leukocyte cell surface requires the presence of the CD18 subunit. Patients who have mutated CD18 genes do not express cell membrane Mac-1 (or the other  $\beta$ 2 integrins), a condition known as leukocyte adhesion deficiency 1 (LAD-1), in which patients have major problems with bacterial infections. Mac-1 is highly expressed on neutrophils and monocytes/macrophages, a subset of NK cells, and activated lymphocytes. Mac-1 operates as a phagocytic receptor, has a role in myeloid cell transmigration and is also a receptor for iC3b, CD54 (ICAM-1), CD102 (ICAM-2) and fibrinogen.

**Isotype:** mouse IgG2b

**Applications:** E, FC, IHC

**Species Reactivity:** H

**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

**Alternate Names:** Integrin  $\alpha$ -M; Leukocyte adhesion receptor MO1; Cell surface glycoprotein MAC-1 subunit  $\alpha$ ; CR-3  $\alpha$  chain; Neutrophil adherence receptor; CD11 antigen-like family member B; CD11b antigen; ITGAM; CD11B; CR3A

**Accession No.:** P11215

**Application Notes:** Purified antibody is suitable for immunohistochemistry with acetone-fixed frozen sections and formalin-fixed paraffin tissues. E: 1:500-1:1,000; FC: 1:200-1:1,000; IHC: 1:200-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.