
CD11b (HI11b) Antibody

Subcategory: Mouse Monoclonal Antibody, PE-conjugated Antibody

Cat. No.: 251057

Unit: 2 ml

Description:

The CD11b (HI11b) antibody recognizes the 165-kDa integrin α M-chain associated with CD18, the 95-kDa integrin β 2, which form a heterodimer glycoprotein called CD11b/CD18 (Mac-1). Leukocytes express four CD11/CD18 integrins which include a common β 2 subunit and distinctive α 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 β 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: FC

Species Reactivity: H

Format: Each vial contains 2 ml IgG (100 tests) in PBS pH7.4, 0.1% BSA 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: FC with whole blood: 100 μ l blood + 20 μ l antibody; FC with cells: 10E6 cells + 20 μ l antibody. FC: 1:200-1:1,000

Storage: Store at 4°C. Product is guaranteed 6 months from the date of shipment.

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