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**Mouse Anti-Human CD11b-PE-Cy5-conjugate**

**PRODUCT INFORMATION**

**Catalog #**      **CD11bPC-100**    **SIZE:** 100 Tests  
**Catalog #**      **CD11bPC-25**      **SIZE:** 25 Tests

**CLONE:**            HI11b

**Product Forms:** Purified, FITC conjugation, PE conjugation.

**DESCRIPTION**

CD11b McAb recognizes the 165 KD integrin  $\alpha$ M-chain associated with CD18 (95KD integrin $\beta$ 2) forming heterodimer glycoprotein called CD11b/CD18 (Mac-1). Leucocytes express four CD11/CD18 integrins which comprise a common  $\beta$ 2 subunit and distinctive  $\alpha$  subunits. The other three integrins are known as CD11a/CD18, CD11c/CD18 and CD11d/CD18. Expression of the CD11b subunit on the leucocyte 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 leucocyte adhesion deficiency 1 (LAD-1), in which patients have major problems with bacterial infections. Mac-1 is most highly expressed on neutrophils and monocytes/macrophages, a subset of NK cells, and activated lymphocytes. Mac-1 operates as a phagocytic receptor, and has a role in myeloid cell transmigration and is also as a receptor for iC3b, CD54 (ICAM-1), CD102 (ICAM-2) and fibrinogen.

**PREPARATION**

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC, R-PE under optimum conditions.

**USAGE**

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections and formalin-fixed paraffin sections.

The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ l peripheral blood cells.

**STORAGE**

For purified forms, long term storage at -20C.

For conjugated forms, storage at 4C, should not be frozen and avoid prolonged exposure to light.

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**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)