



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 α M-chain associated with CD18 (95KD integrin β 2) forming heterodimer glycoprotein called CD11b/CD18 (Mac-1). Leucocytes express four CD11/CD18 integrins which comprise a common β 2 subunit and distinctive α 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 β 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 μ l/10⁶ cells or 100 μ l peripheral blood cells.

STORAGE

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

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