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### Mouse Anti-Human CD11a-PE-Cy5-conjugate

#### PRODUCT INFORMATION

Catalog #      **CD11aPC-100**    **SIZE:** 100 Tests  
Catalog #      **CD11aPC-25**      **SIZE:** 25 Tests

**CLONE:** HI111

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

#### DESCRIPTION

CD11a McAb recognizes the 180KD integrin  $\alpha$  chain associated with CD18 (95KD integrin  $\beta 2$ ) forming heterodimer glycoprotein called the lymphocyte function antigen-1 (LFA-1,CD11a/CD18). Leucocytes express four CD11/CD18 integrins which comprise a common  $\beta 2$  subunit and distinctive  $\alpha$  chains. The other three integrins are known as CD11b/CD18, CD11c/CD18 and CD11d/CD18. LFA-1 is present on all leucocytes and is responsible chiefly for adhesion between leucocytes during immune response and also functions in transmigration of leucocytes across endothelium. The ligands for CD11a/CD18 are intercellular adhesion molecules CD54 (ICAM-1), CD102 (ICAM-2) and CD50 (ICAM-3). Patients who have mutated CD18 genes do not express cell membrane LFA-1 (or the other  $\beta 2$  integrins), a condition known as leucocyte adhesion deficiency 1 (LAD-1).

#### 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.

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

#### STORAGE

For purified forms, long term storage at  $-20^{\circ}\text{C}$ .

For conjugated forms, storage at  $4^{\circ}\text{C}$ , should not be frozen and avoid prolonged exposure to light.

#### REFERENCES

Knapp, W., B. Dorken, E. P. Rieber, et al., eds. 1989. Leucocyte Typing  $\square$ : White Cell Differentiation Antigens. P: 548, 1077 Oxford University Press, New York.