ALPHA DIAGNOSTIC INTERNATIONAL

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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 α chain associated with CD18 (95KD integrin β2) forming heterodimer glycoprotein called the lymphocyte function antigen-1 (LFA-1,CD11a/CD18). Leucocytes express four CD11/CD18 integrins which comprise a common β2 subunit and distinctive α 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 immue 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 β2 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 20μl/10^6 cells or 100μl peripheral blood cells.

STORAGE

For purified forms, long term storage at -20□.
For conjugated forms, storage at 4□, should not be frozen and avoid prolonged exposure to light.

REFERENCES

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

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