

Mouse Anti Human CD11a Purified

PRODUCT INFORMATION

CLONE: HI111
ISOTYPE: Mouse IgG1, κ
WS.No.: IV N231
CATALOG#: A6221/ A6221-bulk
CONTENTS: Purified antibody buffered in 10mM PBS (PH 7.0) with 0.1% NaN₃.

DESCRIPTION

CD11a McAb recognizes the 180KD integrin α chain associated with CD18 (95KD integrin β 2) forming heterodimer glycoprotein called the lymphocyte function antigen-1 (LFA-1, CD11a/CD18). Leucocytes express four CD11/CD18 integrins which comprise a common β 2 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 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 β 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.

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.

STORAGE

Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze and thaw cycles.

REFERENCES

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

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