
Mouse Anti-Human CD18

Category # CD18UL-100 Size 100 ug

PRODUCT INFORMATION

CLONE: HI18a
ISOTYPE: Mouse IgG1
Product Forms: Purified, FITC conjugation, PE conjugation.

DESCRIPTION

CD18 McAb recognizes a 95 KD transmembrane protein, integrin $\beta 2$ subunit, which associates respectively with the integrin α subunits: CD11a, CD11b, CD11c and CD11d forming four heterodimers named CD11a/CD18 (LFA-1), CD11b/CD18 (Mac-1), CD11c/CD18 (p150,95) and CD11d/CD18 ($\alpha d\beta 2$). Membrane expression of integrins requires the presence of CD18 subunit. The CD18 integrins are expressed exclusively on leucocytes and play an important role in homotypic and heterotypic cellular adhesion in immune and inflammatory responses. Patients who have mutated CD18 gene do not express cell membrane CD11/CD18 integrins, a condition known as leucocyte adhesion deficiency (LAD).

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.

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 -20 $^{\circ}$ C.

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