PERFORMANCE DATA SHEET

2025



Monoclonal anti-human CD11a (LFA-1 integrin αL)/FITC*

Clone: 38

Isotype: Mouse IgG2a

Immunogen: Human monocytes

CATALOG#: 158-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD11a (α L integrin) complexes with CD18 (β_2 integrin) to form the LFA-1 heterodimer adhesion molecule which binds to three ICAM's 1, 2, and 3, also designated CD54, CD102, and CD50 respectively. LFA-1 is expressed on lymphocytes, monocytes and neutrophils and plays a role in cell-cell adhesion. Antibody 38 recognizes the I domain of the integrin alpha L subunit (CD11a) of about 180 kd. Antibody 38 blocks binding of ICAM-1 and ICAM-3 to LFA-1 at 5-10 µg/ml.

References: I. Dransfield & N. Hogg, (1989) EMBO J **12**: 3759-3765. Leukocyte Typing V (S.F. Schlossman,et al, eds.) Oxford University Press, Oxford, (1995) p. 1581-1592. R.C. Landis, et al, (1994) J Cell Biol **126**: 529-537. C.L. Holness, et al, (1995) J Biol Chem **270**: 877-884.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/Thawing is not recommended. Protect from light.

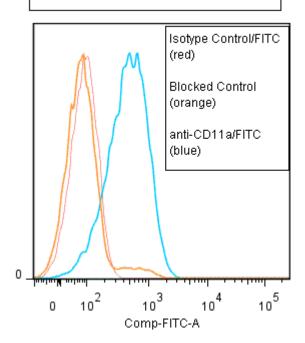
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to 95% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 9.9.

PERFORMANCE: Five x 10^5 cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 ml of anti-CD11a/FITC at a **1:50** dilution (5 µg/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.79** \log_{10} fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog #281-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD11a antibody (Catalog #158-020).

Binding of anti-CD11a/FITC to human HPB-MLT cells



^{*} Research Use Only. Not for use in Diagnostic procedures.