

**PERFORMANCE DATA SHEET**  
2025

**Monoclonal anti-human CD11a (LFA-1 integrin  $\alpha^L$ )/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  $\mu$ l of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** Human CD11a ( $\alpha^L$  integrin) complexes with CD18 ( $\beta_2$  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  $\mu$ g/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°C. 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% NaN<sub>3</sub> (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  $\times 10^5$  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  $\mu$ g/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  $\mu$ l of 0.5 mg/ml anti-CD11a antibody (Catalog #158-020).

\* *Research Use Only. Not for use in Diagnostic procedures.*

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

