

**PERFORMANCE DATA SHEET**

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**Monoclonal anti-human CD11a (LFA-1 integrin  $\alpha^L$ )/Biotin\***

**mAb name/Clone:** 38

**Isotype:** Mouse IgG2a

**Immunogen:** Human monocytes

**CATALOG#:** 158-030

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 0.5 mg/ml

**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 not recommended.

**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% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> HPB-MLT human T cell tumor cells were washed incubated 45 minutes on ice with 80  $\mu$ l of anti-CD11a/Biotin at 5  $\mu$ g/ml. Cells were then washed twice and incubated 45 minutes 2<sup>o</sup> reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.94 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated with 20 $\mu$ l of 0.5 mg/ml anti-CD11a antibody (cat# 158-020).

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

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

