

**PERFORMANCE DATA SHEET**

1751

**Monoclonal anti-human CD11a\***

**mAb name/Clone:** 38

**Isotype:** Mouse IgG2a

**Immunogen:** Human monocytes

**CATALOG#:** 158-020

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 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 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°C. Freeze/Thawing is not recommended.

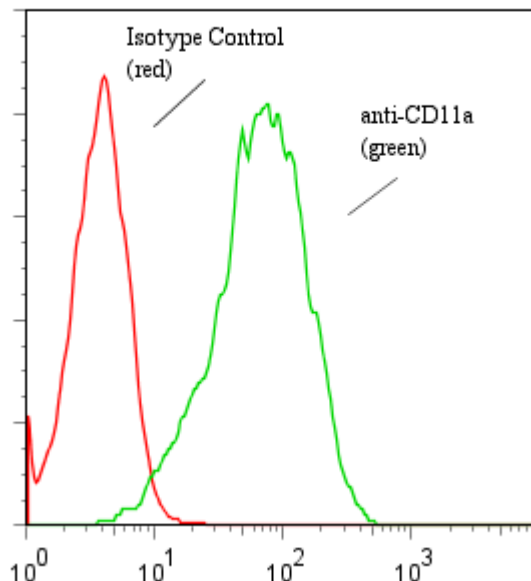
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured HPB-MLT human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD11a antibody at 5 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.28 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a negative control (Catalog #281-010).

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



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