



PERFORMANCE DATA SHEET

1816

Monoclonal anti-human CD1b/FITC*

mAb Name: SN13 **Clone:** K5-1B8

Isotype: Mouse IgG1 κ

Immunogen: Membrane preparation of human thymocytes

CATALOG#: 142-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (80 μ l/test)

INFORMATION: The human CD1 genetic locus consists of five closely related genes. Three of the gene products (CD1a, CD1b and CD1c) have been officially clustered using antibodies and are expressed on cortical thymocytes, a subset of B cells, and on most professional antigen presenting cells. CD1 molecules have a specialized lipid antigen-presenting function. Antibody SN13 is specific for the CD1b molecule of about 45kd. Specificity was confirmed using CD1b transfectants.

References: Leukocyte Typing III (A.J. McMichael, et al, eds.) Oxford University Press, Oxford, (1987) p. 882. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 337-341. E.M. Beckman, et al, (1994) Nature **372:** 691-694.

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% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/Antibody molar ratio of 8.1.

PERFORMANCE: Five x 10⁵ cultured **HPB-MLT** human tumor cells per tube were washed and incubated 45 minutes on ice with 80 μ l of anti-CD1b/FITC at a **1:50** dilution (5 μ g/ml). Cells were then washed three times, fixed and analyzed by FACs. Cells stained positive with a mean shift of **1.25 log₁₀** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD1b antibody (Catalog #142-020).

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

Binding of anti-CD1b/FITC to human cell lines

