

**PERFORMANCE DATA SHEET**

1909

**Monoclonal anti-human CD1b/Biotin\*****mAb Name:** SN13     **Clone:** K5-1B8**Isotype:** Mouse IgG1 $\kappa$ **Immunogen:** Membrane preparation of human thymocytes**CATALOG#:** 142-030**QUANTITY:** 100  $\mu$ g**CONCENTRATION:** 1.0 mg/ml

**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 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> cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD1b/Biotin at **10  $\mu$ g/ml**. Cells were washed twice and incubated with 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 **2.0 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ 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/Biotin + SA/PE to human HPB-MLT cells**

