PERFORMANCE DATA SHEET
1817

Monoclonal anti-human CD57 (HNK-1)/Biotin*

mAb name/Clone: **NK-1**
Isotype: Mouse IgMκ
Immunogen: Human PBL

CATALOG#: 209-030
QUANTITY: 100 µg **CONCENTRATION: 1.0 mg/ml**

INFORMATION: Human CD57 originally called HNK-1 is a glycoprotein found on 15-20 percent of PBL's, including 60 percent of NK cells, and a subset of T cells (1). The immune regulation role of CD57 postive PBL's expressing high levels of CD8 is being investigated (2). Antibody NK-1 recognizes the CD57 molecule of about 110 kd.
References: 1) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1412-1414. 2) E.C.Y. Wang, et al, (1995) J Immunol *1557*: 5046-5056.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}C.*** **Do Not Freeze.**

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

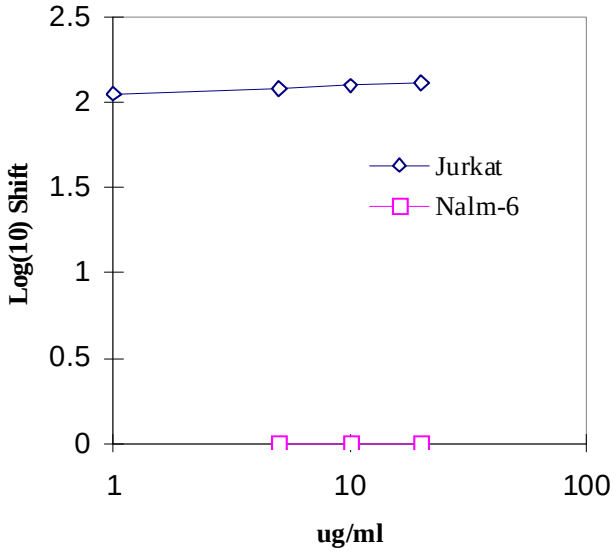
BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

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 10^5 cultured **Jurkat** human tumor cells were washed incubated 45 minutes on ice with 80 µl of anti-CD57/Biotin at **10 µg/ml**. Cells were washed twice and incubated with 2^{o} 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 **2.1** $\log_{10}$ fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog #290-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD57 antibody (Catalog #209-020).

****This Product is intended for Laboratory Research use only.***

Binding of anti-CD57/Biotin to human cell lines



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