PERFORMANCE DATA SHEET

3116

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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°C. Do Not Freeze.

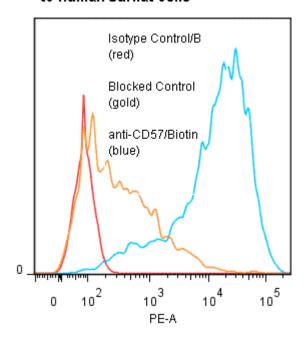
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 human **Jurkat** cells were washed incubated 45 minutes on ice with 80 μl of anti-CD57/Biotin at **5 μg/ml**. Cells were washed twice and incubated with 2^0 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 **2.41** \log_{10} fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog #290-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD57 antibody (Catalog #209-020).

Binding of anti-CD57/Biotin +SA/PE to human Jurkat cells



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^{*} Research Use Only. Not for use in Diagnostic procedures.