

**PERFORMANCE DATA SHEET**

3116

**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 positive 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* 155: 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% Na<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 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<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 2.41 log<sub>10</sub> 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).

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

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