

## PERFORMANCE DATA SHEET

1817

### *Monoclonal anti-human CD57 (HNK-1)\**

**mAb name/Clone:** NK-1

**Isotype:** Mouse IgMκ

**Immunogen:** Human PBL

**CATALOG#:** 209-020

**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.* Freeze/Thawing is not recommended.

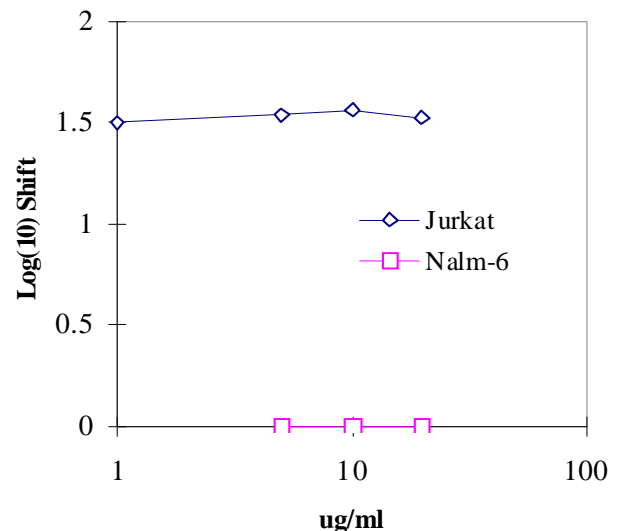
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was purified to 95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin) using size exclusion chromatography.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Jurkat** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD57 antibody at **5 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011); after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.54** log<sub>10</sub> fluorescent units when compared to a Mouse IgM negative control (Catalog #290-010) at a similar concentration.

**Binding of anti-CD57 antibody to human cell lines**



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