

PERFORMANCE DATA SHEET

1817

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

mAb name/Clone: NK-1

Isotype: Mouse IgMκ

Immunogen: Human PBL

CATALOG#: 209-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5×10^5 -cell test)

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 No Freeze. Protect from light.

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% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was size exclusion purified to 90% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.5 mg/ml** with a Fluorescein/IgM molar ratio of 51.7.

PERFORMANCE: Five $\times 10^5$ cultured **Jurkat** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD57/FITC at a **1:50** dilution factor (10 µg/ml). Cells were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.2 log₁₀** fluorescent units when compared to a Mouse IgM/FITC negative control (Catalog #290-040) 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/FITC to human cell lines

