

## PERFORMANCE DATA SHEET

1818

### *Monoclonal anti-human CD56 (NCAM)/R-PE\**

*mAb name/Clone:* ANC7C7

*Isotype:* Mouse IgG1k

*Immunogen:* Recombinant human CD56 (truncated domains 1-4 only)

**CATALOG#:** 308-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION** Human CD56 is an adhesion molecule from the Ig superfamily which is restricted to NK cells in the immune system. It is believed that NK cells form a first line of defense against tumor cells and cells infected with bacteria and viruses. Antibody ANC7C7 recognizes an epitope within the first four Ig-like domains of the CD56 molecule.

**References:** S.P. Bourne, et al, (1991) J Neuro-Oncol **10**: 111-119. T.L. Whiteside and R.B. Herberman (1994) Clinical & Diagnostic Laboratory Immunology. H. Spits, et al, (1995) Blood **85**: 2654-2670.

**STORAGE CONDITIONS:** *Store at 2 - 5°C.* Do not 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **500 µg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.63.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human **peripheral blood mononuclear cells** per tube were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of product at a dilution factor of **1:50** (10ug/ml). Cells were washed three times, fixed and analyzed by FACS. A net **13%** sub population of the cells stained positive with a mean shift of **1.1** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD56 antibody (Catalog #308-020).

*\*This Product is intended for Laboratory Research use only.* R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.