

PERFORMANCE DATA SHEET

2410

Monoclonal anti-human CD56 (NCAM)/Biotin*

mAb name/Clone: ANC7C7

Isotype: Mouse IgG1κ

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

CATALOG#: 308-030

QUANTITY: 100 µg

CONCENTRATION: 1.0mg/ml

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.* 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, 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 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 10⁵ ficoll prepared human **peripheral blood mononuclear cells** per tube were washed and preincubated ~5 minutes with 20 µl of 300 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of product at **10 µg/ml**. Cells were washed twice and incubated with Streptavidin/R-PE (cat #253-050), after which they were washed twice, fixed and analyzed by FACS. A net **24%** sub population of the cells stained positive with a mean shift of **1.38** log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin isotype control (catalog # 278-030). Binding was blocked when cells were pre incubated with 20 µl of 0.5mg/ml anti-CD56 antibody (Cat# 308-020).

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

Binding of anti-CD56/Biotin +SA/PE to human PBMC

