

PERFORMANCE DATA SHEET

2038

Monoclonal anti-human CD127 (IL-7R α)/FITC*

mAb name/Clone: ANC8F2

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human CD127

CATALOG#: 348-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6 μ l of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: CD127 (IL-7R α) is the specific receptor component for the cytokine Interleukin -7 (IL-7). It is found on a wide variety of hematopoietic cell types including B cell precursors, and the majority of T cells. Its expression levels are decreased on T cells following activation. CD127 can dimerize with CD132(IL-2R γ) to form a high affinity IL-7 receptor (1). CD127 engagement is necessary for T cell development in humans (2). Antibody ANC8F2 recognizes an extracellular epitope of recombinant and native CD127 in FACS and Enzyme Immunoassay.

References: 1) Noguchi, M. *et al.*, 1993, *Science* **262**:1877. 2) Pribyl, J.A. and T.W. LeBien, 1996, *Proc. Natl. Acad. Sci.* **93**:10348. 3) Goodwin RG, Friend D, Ziegler SF, *et al.* *Cell.* 1990;60:941.

STORAGE CONDITIONS: Store at 2 - 5^oC. Freeze/Thawing is not recommended. 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: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately 0.5 mg/ml with a Fluorescein/IgG molar ratio of 5.3.

PERFORMANCE: Five x 10⁵ cultured human HPB-MLT tumor cells per tube were washed and incubated 45 minutes on ice with 80 μ l of anti-CD127/FITC at a 1:50 dilution (10 μ g/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.7 log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD127 antibody (Catalog #348-020).

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

Binding of anti-CD127/FITC to human HPB-MLT cells

