

PERFORMANCE DATA SHEET

2038

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

mAb name/Clone: ANC8F2

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human CD127

CATALOG#: 348-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 μ l of concentrated reagent 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) Prieyl, 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. 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% NaN₃ (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 **0.5 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 2.64.

PERFORMANCE: Five x 10⁵ ficoll prepared human PBMC per tube were pre incubated with 20 μ l of 250 μ g/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of product at a dilution factor of 1:50 (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS using a lymphocyte gate. Cells stained positive with a mean shift of **0.67 log₁₀** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog # 278-050). Binding was blocked when the reagent was pre incubated with a 10-fold excess of recombinant CD127-muIg (Catalog # 539-020).

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

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD127/PE to human PBMC

