

**PERFORMANCE DATA SHEET**

2038

**Monoclonal anti-human CD127 (IL-7R $\alpha$ )\***

**mAb name/Clone:** ANC8F2

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Recombinant human CD127

**CATALOG#:** 348-820 (Preservative Free)

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** CD127 (IL-7R $\alpha$ ) 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 $\gamma$ ) 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 $^{\circ}$ C. Open under aseptic conditions. Freeze/Thawing is not recommended.

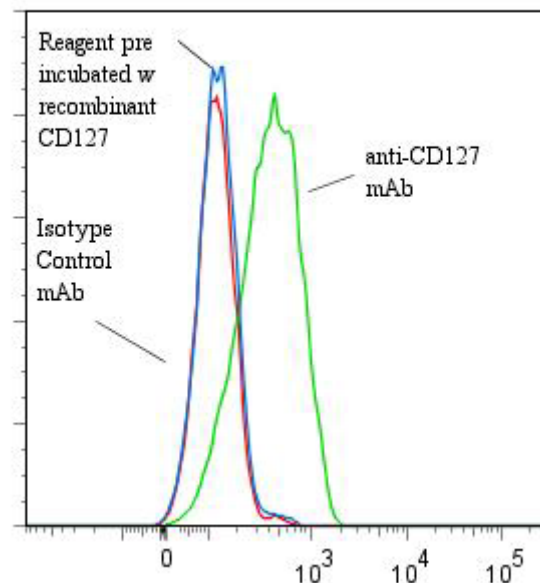
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin. Product was 0.2  $\mu$ m filtered and vialled under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> human Nalm-6 cells were washed incubated 45 minutes on ice with 80 ul of anti-human CD127 antibody at 10  $\mu$ g/ml. Cells were washed twice and incubated with Goat-anti-Mouse/FITC (Cat# 232-011), after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.71 log<sub>10</sub> fluorescent units when compared to isotype control Mouse IgG1 antibody (catalog # 278-010). Binding was blocked when reagent was pre incubated with a 10-fold excess of recombinant CD127-muIg (cat# 539-020).

**Binding of anti-CD127 antibody + GAM/FITC to human Nalm-6 cells**



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