## PERFORMANCE DATA SHEET 2038 Monoclonal anti-human CD127 (IL-7Rα)\*



*mAb name/Clone:* ANC8F2 *Isotype:* Mouse IgG1ĸ *Immunogen:* Recombinant human CD127

## CATALOG#: 348-050VOLUME IN VIAL: 0.2 mlQUANTITY: 120 testsVOLUME IN VIAL: 0.2 mlWORKING DILUTION: 1:50 (or use 1.6μl of concentrated reagent per 5 x 10<sup>5</sup>-cell test)

**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°C. Do not freeze! Protect from light.

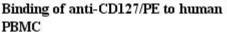
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

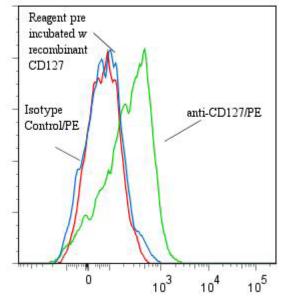
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**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 **0.5 mg/ml** with an  $A_{565}/A_{280}$  ratio of 2.64.

**PERFORMANCE:** Five x  $10^5$  ficoll prepared human **PBMC** per tube were pre incubated with 20 µl of 250 µg/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of product at a dilution factor of **1:50** (10 µg/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** log<sub>10</sub> 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.





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