

PERFORMANCE DATA SHEET

2038

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

mAb name/Clone: ANC8F2

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human CD127

CATALOG#: 348-030

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

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°C. Freeze/thawing 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** (PBMC) per tube were washed and pre incubated 5 minutes with 20 μ l of 250 μ g/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of anti-human CD127/Biotin at concentration of **10 μ g/ml**. They were then washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed twice, fixed and analyzed by FACS using a lymphoid gate. A net **62%** of the cells stained positive with a mean shift of **1.0 log10** fluorescent units when compared to isotype control Mouse IgG1/Biotin(catalog #278-030). Binding was blocked when reagent was pre incubated with a 10-fold excess of recombinant CD127-muIg (cat #539-020), or when cells were pre incubated with 20 μ l of 0.5mg/ml unlabeled anti-CD127 mAb (cat #348-020).

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

Binding of anti-CD127/Biotin +SA/PE to human PBMC

