

PERFORMANCE DATA SHEET

1820

Monoclonal anti-human IL-2/Biotin*

mAb name/Clone: ANC7F7

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human IL-2

CATALOG#: 245-030 (substitute for cat# 395-030)

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

INFORMATION: The cytokine human interleukin-2 (IL-2) is a 15 kd protein expressed upon activation by peripheral TH1 cells, medullary thymocytes, and a subset of large granular lymphocytes. Clone ANC7F7 binds to recombinant IL-2 in EIA, and recognizes intracellular IL-2 in fixed, permeabilized cells.

References: 1. S.L. Swain (1991) Curr Opin Immunol 3:304-310. 2. A.K. Abbas, et al, (1996) Nature 383: 787-793. 3. A. Rebollo, et al, (1996) Advan Immunol 63: 127-196.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/thawing not recommended.

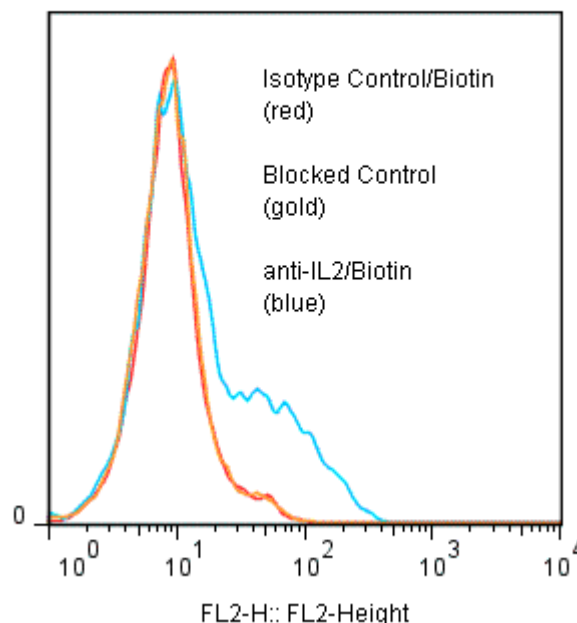
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% Na₂S₂O₃ (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: Ficoll prepared human peripheral blood mononuclear cells were stimulated 4 hours in the presence of 50 ng/ml PMA, 2 μ M ionomycin and 5 μ M monensin. Cells were then harvested, washed and fixed for 30 min with 2% buffered formaldehyde after which they were washed two times. Fixed cells were permeabilized 10 minutes in a buffer containing 0.3% Saponin. Subsequent reagent incubations and washes were done using this buffer. Five x 10⁵ cells per tube were preincubated 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-IL-2/Biotin at a concentration of 1.0 μ g/ml. Cells were washed twice and incubated 20 reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. A net 18% sub population of the cells stained positive with a mean shift of 0.94 log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml ANC7F7 anti-IL-2 antibody (Catalog #245-020).

Binding of anti-IL-2/Biotin +SA/PE to stimulated human PBL



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