

## PERFORMANCE DATA SHEET

1817

### *Monoclonal anti-human IL-2/Biotin\**

*mAb name/Clone:* ANC7F7

*Isotype:* Mouse IgG1 $\kappa$

*Immunogen:* Recombinant human IL-2

**CATALOG#:** 245-030

**QUANTITY:** 100  $\mu$ 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% Na<sub>3</sub>N (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  $\mu$ M ionomycin and 5  $\mu$ 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 10<sup>5</sup> cells per tube were preincubated 5 minutes with 20  $\mu$ l of 250  $\mu$ g/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-IL-2/Biotin at a concentration of **1.0  $\mu$ g/ml**. Cells were washed twice and incubated 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. A net **16%** sub population of the cells stained positive with a mean shift of **0.83 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml ANC7F7 anti-IL-2 antibody (Catalog #245-020).

*\*This Product is intended for Laboratory Research use only.*