

## PERFORMANCE DATA SHEET

1750

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

*mAb name/Clone:* ANC7F7

*Isotype:* Mouse IgG1 $\kappa$

*Immunogen:* Recombinant human IL-2

**CATALOG#:** 245-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6 $\mu$ l of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**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. Secreted IL-2 N7-48A stimulates proliferation and lymphokine production by T cells, B cells and NK 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 is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.1 mg/ml** with a Fluorescein/IgG molar ratio of 13.

**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 nonspecific binding), after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-IL-2/FITC at a **1:50 dilution (1  $\mu$ g/ml)**. Cells were washed three times, fixed and analyzed by FACS using a lymphocyte gate. Cells stained positive with a mean shift of **0.62 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1 $\kappa$ /FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-IL-2 antibody (Catalog #245-020).

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

**Binding of anti-IL-2/FITC to fixed permeabilized stimulated human PBMC**

