

PERFORMANCE DATA SHEET

1817

*Monoclonal anti-human IL-2**

mAb name/Clone: ANC7F7

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human IL-2

CATALOG#: 245-020

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. Secreted IL-2 N7-48A stimulates proliferation and lymphokine production by T cells, B cells and NK cells. Antibody ANC7F7 binds to soluble and intracellular IL-2 in FACS and EIA.

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.

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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

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 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-IL-2** antibody at **5 μ g/ml**. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. A net **40%** sub population of the cells stained positive with a mean shift of **1.07 log₁₀** fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010) at a similar concentration.

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

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