PERFORMANCE DATA SHEET
3039

Monoclonal anti-human IL-2/R-PE*

mAb name/Clone: **ANC7F7**
Isotype: Mouse IgG1κ
Immunogen: Recombinant human IL-2

CATALOG#: 245-050
QUANTITY: 120 tests **VOLUME IN VIAL: 0.2 ml**
WORKING DILUTION: 1:50 (or use 1.6ul of concentrated stock per 5 x 10^5-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 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^{o}C. Do not freeze! Protect from light.***

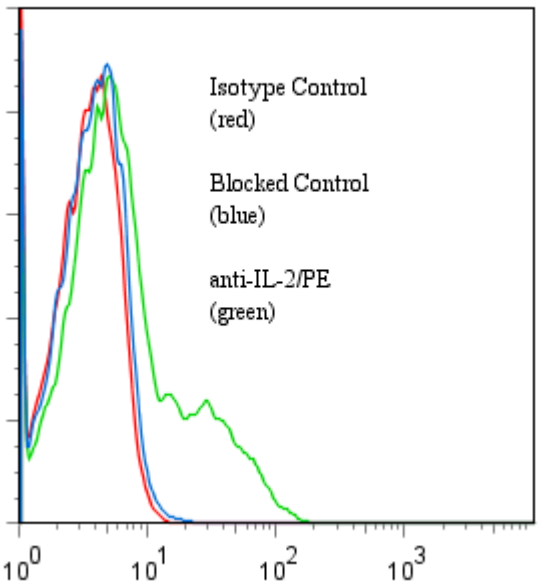
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.25 mg/ml** with an A_{565}/A_{280} ratio of 3.35.

PERFORMANCE: Ficoll prepared human **peripheral blood mononuclear cells** were stimulated 4 hours in the presence of 50 ng/ml PMA, 2 μM ionomicin and 5 μM 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 permeabolized 10 minutes in a buffer containing **0.3% Saponin**. Subsequent reagent incubations and washes were done using this buffer. Five x 10^5 cells per tube were pre incubated 5 minutes with 20 μl of 250 μg/ml human IgG (to block nonspecific binding), after which they were incubated 45 minutes on ice with 80 μl of anti-IL-2/R-PE at a **1:50** dilution (5 μg/ml). Cells were washed three times, fixed and analyzed by FACS using a lymphocyte gate. A net **19%** sub population of the cells stained positive with a mean shift of **1.0** $\log_{10}$ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-IL-2 antibody (Catalog #245-020).

Binding of anti-IL-2/PE to fixed permeabolized, stimulated human PBMC



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