

PERFORMANCE DATA SHEET

3347

Monoclonal anti-human human IFN-gamma/Biotin*

mAb name/Clone: ANC2E11

Isotype: Mouse IgG1κ

Immunogen: Recombinant human IFN-gamma

CATALOG#: 247-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: The cytokine human interferon-gamma (IFN-gamma) is a glycosylated protein that exists as a homodimer of 34 kd in its biologically active form. IFN-gamma is expressed upon activation by TH1 cells CD8⁺ cells and NK cells (2). Secreted IFN-gamma is a potent inhibitor of *in vitro* hematopoiesis and appears to serve as an important regulator of lymphocyte and macrophage function by exerting antiproliferative effects (1). Antibody ANC2E11 binds to recombinant and cellular IFN-gamma in EIA and Flow cytometry.

References: 1) H.A. Young & K.J. Hardy (1995) J Leuk Biol 58:373-381. 2) A. Bilkiau (1996) Adv Immunol 62:61-130. 3) T. Sato, et al (1997) Blood 90:4749-4758.

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

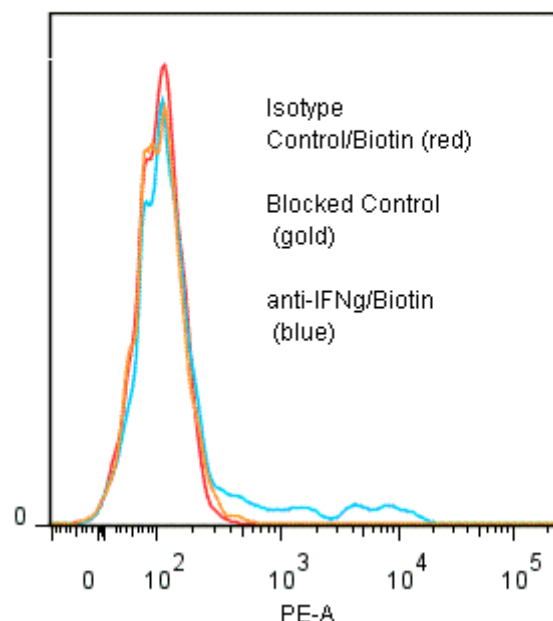
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 lymphocytes were stimulated 4 hours in the presence of 50 ng/ml PMA, 2 µM ionomycin and 1 ug/ml Brefeldin A. 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 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-IFN gamma/Biotin at 5 µg/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. A net 11.2% sub population of the cells stained positive with a mean shift of 1.59 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 µl of 0.5 mg/ml anti-IFN-gamma antibody (Catalog #397-020).

Binding of anti-IFNg/Biotin +SA/PE to fixed, permeabilized, stimulated human PBL



***Research use only. Not for use in Diagnostic procedures.**