

PERFORMANCE DATA SHEET
2919

Monoclonal anti-human human IFN-gamma/Biotin*

mAb name/Clone: ANC2E11

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human IFN-gamma

CATALOG#: 247-030

QUANTITY: 100 μ g

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. Bilkiu (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.

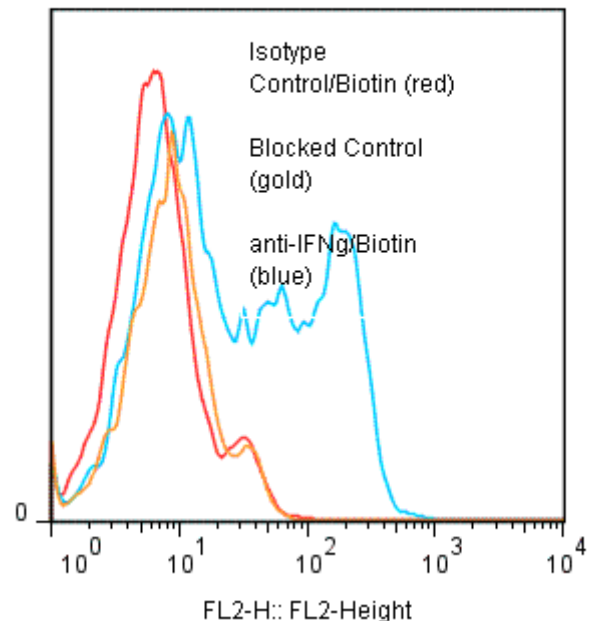
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

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 conjugating using a desalting column.

PERFORMANCE: Ficoll prepared human peripheral blood lymphocytes 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 preincubated 5 minutes with 20 μ l of 250 μ g/ml human IgG (To block nonspecific binding), after which they were incubated 45 minutes on ice with 80 μ l of anti-IFN gamma/Biotin at **1 μ g/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 **40%** sub population of the cells stained positive with a mean shift of **1.0 log₁₀** 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 μ l of 0.5 mg/ml anti-IFN-gamma antibody (Catalog #397-020).

Binding of anti-IFN γ /Biotin +SA/PE to fixed permeabilized stimulated human PBMC



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