

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human human IFN-gamma*

mAb name/Clone: ANC2E11

Isotype: Mouse IgG1 κ

Immunogen: Recombinant human IFN-gamma

CATALOG#: 247-020

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. 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, 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 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 antibody at **1.0 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 **35%** sub population of the cells stained positive with a mean shift of **1.37 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.*