

## Anti-Human IFN gamma FITC

Catalog Number :80811-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** 4S.B3

**Format/Conjugate:** FITC

**Concentration:** ug size: 0.5 mg/mL; test size: 5 uL (0.5 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The 4S.B3 is a neutralizing antibody that binds with the human Interferon-gamma (IFN- $\gamma$ ) protein, a 15 -17 kDa cytokine with significant antibacterial, antiviral, and antitumoral properties. When secreted by natural killer cells and by natural killer T lymphocytes, it regulates the immune response and supports adaptive immunity when produced by Th1 or CD8+ T lymphocytes. IFN- $\gamma$  plays an important role in the activation, the growth, and the differentiation of the macrophages, B and T lymphocytes, and natural killer cells. It interacts synergically with other cytokines, such as TNF- $\alpha$ , to inhibit proliferation of normal and transformed cells. IFN-  $\gamma$  is the primary cytokine that defines Th-1 cells.

The biological activity of IFN- $\gamma$  is not affected by glycosylation

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ L.

### References

1. Meager, A. (1987). Antibodies against interferons: Characterization of interferons and immunoassays.; Lymphocytes and Interferons. A Practical Approach. Clemens, MJ, AG Morris, and AJH Gearing, eds. IRL Press Ltd. Oxford, 105.
2. Prussin, C., Metcalfe, D. D. (1995). Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies.; Journal of immunological methods.; 188(1), 117-128.
3. Jason, J., Larned, J. (1997). Single-cell cytokine profiles in normal humans: comparison of flow cytometric reagents and stimulation

