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Monoclonal Antibody to IFNG / Interferon gamma - FITC

Alternate names: IFN-gamma, gamma IFN

Catalog No.: SM1701F

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Background: Interferon gamma is mainly produced by T lymphocytes and NK cells. It is a pleiotropic cytokine involved in the regulation of nearly all phases of immune and inflammatory responses,including the activation, growth and differentiation of T cell, B cells, macrophages, NK cells and other cell types such as endothelial cells and fibroblasts. It has weak antiviral and antiproliferative activity, and poteniates the antiviral and anti tumor effects of IFN alpha / beta (type I interferon). It is upregulated by IL2, FGF basic, EGF and downregulated by vitamin D3 or DMN. Labile at pH 2.

Uniprot ID: P01579

NCBI: 9606

Host / Isotype: Mouse / IgG1

Clone: D9D10

Immunogen: Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3X63-Ag-8.653 myeloma cell line.

Format:
State: Liquid purified IgG
Purification: Ion exchange chromatography
Buffer System: PBS, pH7.2 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: Flow cytometry: neat - 1/10; use 10µl of the suggested working dilution to label 10e6 cells in 100µl; Membrane permeabilisation is required for this application.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises both natural and recombinant interferon gamma, binding only to the dimeric (functional) form.
Species: Human, Baboon.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General References:
1. Andersson, U. et al. (1986) Phenotypic characterization of individual interferon gamma producing cells after OKT3 antibody activation. Eur. J. Immunol. 16: 1457-1460.

2. Sandvig, S. et al. (1987) Gamma-interferon is produced by CD3+ and CD3- lymphocytes. Immunol. Rev. 97: 51-65.
3. Andersson, U. et al. (1988) Enumeration of interferon gamma producing cells by flow cytometry: Comparison with fluorescence microscopy. J. Immunol. Methods 112: 139-142.