IOTest® Anti-IFNγ-FITC

PN IM2716U – 2 mL Liquid – 20 µL / test* – Clone 45.15

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

INFγ (also known as Immune Interferon or Type II interferon) is a homodimeric protein with a molecular weight (Mr) of the monomer form ranging from 20 to 25 kDa. The level of glycosylation is responsible for molecular weight heterogeneity observed for the monomer (1 – 3). The monomers are associated to form biologically active dimers with a Mr ranging from 40 to 75 kDa.

INFγ is produced by T cells and NK cells (1, 2). Its pleiotropic effects result in regulating practically all phases of immune and inflammatory responses, including the activation, growth and differentiation of T-, B-lymphocytes, macrophages, NK cells and others cell types such as endothelial cells and fibroblasts (1, 4).

Among its numerous immunomodulatory effects, INFγ is known for its anti-viral, anti-parasitic and anti-tumoral activities (3 – 5).

REAGENT

IOTest Anti-IFNγ-FITC Conjugated Antibody PN IM2716U – 2 mL Liquid – 20 µL / test*.

Clone	45.15
Isotype	IgG1, mouse
Source	Serum-free culture supernatant
Purification	Ion exchange or affinity chromatography
Conjugation	FITC (Fluorescein isothiocyanate) is conjugated at 3 – 6 moles of FITC per mole of Ig.
Fluorescence	FITC (Green) Excites at 468 – 509 nm Emits at 504 – 541 nm

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN_3) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Do not use antibody beyond the expiration date on the label.
3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes
5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this FITC-labeled reagent (clear, colorless to yellowish-green liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No preparation is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Rinderknecht, E., O'Connor, B.H., Rodriguez, H., "Natural human interferon-γ", 1984, J. Biol. Chem., 11, 259, 6790-6797.
2. De Maeyer, E., De Maeyer-Guignard, J., "Interferon-γ", 1992, Curr. Opin. Immunol., 4, 321-326.
3. Callard, R., Gearing, A.J.H., "The cytokines and their receptors : Other cytokines IFNγ", 1994, The Cytokine FactsBook, Academic Press, 157-162.
4. Belardelli, F., "Role of interferons and other cytokines in the regulation of the immune response", 1995, APMIS, 103, 161-179.
5. Hemler, M.E., Huang, C., Schwarz, L., "The VLA protein family", 1987, J. Biol. Chem., 262, 3300-3309.

PRODUCT AVAILABILITY

IOTest Anti-IFNγ-FITC Conjugated Antibody PN IM2716U – 2 mL Liquid – 20 µL / test*.

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.
www.beckmancoulter.com

TRADEMARKS

Manufactured by:
Immunotech SAS, a Beckman Coulter Company
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(*): 20 µL is the quantity of product sufficient to stain 5×10^5 cells in a standard immunofluorescence assay