

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

iF647 Anti-Human IFNg

Catalog Number: 110604, 110605

Size: 25 tests, 100 tests

Target Name: IFNg, IFN-g, IFN-gamma, Interferon-?

Regulatory Status: RUO

Product Details

Clone: 4S.B3
Application: FC
Reactivity: Human
Format: iF647

Isotype: Mouse IgG1

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v)

BSA

Protein Concentration: Supplied at a lot-specific concentration.

Storage&Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and

protected from prolonged exposure to light. Do not freeze.

Recommended Usage: For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 μL volume. Optimal reagent performance should be determined by

titration for each specific application. **Excitation Laser:** Red Laser (633 nm)

Release Date: Nov-25

Background Information

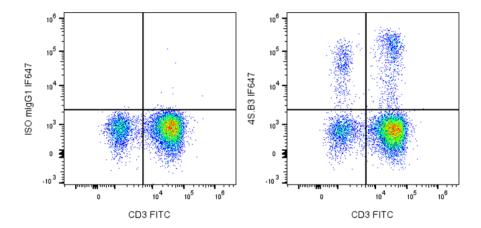
Human Interferon gamma (hIFN-?) is the sole member of Type II interferons and a potent macrophage-activating cytokine produced mainly by activated T lymphocytes and natural killer (NK) cells. Structurally, it is an antiparallel homodimeric glycoprotein of approximately 45 kDa, consisting of two identical 146-amino-acid subunits. Binding of hIFN-? to its receptor (IFN-?R1) activates the JAK/STAT signaling pathway, leading to the transcription of genes involved in antiviral, antibacterial, and immunoregulatory responses. Functionally, hIFN-? upregulates MHC class I and II expression, enhances antigen presentation, and promotes Th1-type immune responses. It recruits and activates macrophages, NK cells, and cytotoxic T lymphocytes (CTLs), reinforcing innate and adaptive immunity. Although crucial for host defense, IFN-? can also contribute to immune escape and tumor resistance in certain cancers.

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PMA/Ionomycin-stimulated human peripheral blood lymphocytes stained with FITC Anti-human CD3 and either iF647 Anti-Human IFN? clone 4S.B2 (right panel) or an isotype control (left panel).