

# IFN gamma Monoclonal Antibody (4S.B3), PE, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 50 µg   |
| Species Reactivity          | Human   |
| Published Species           | Rat, Mouse, Human, Rhesus monkey                                |
| Host/Isotype                | Mouse / IgG1, kappa   |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | 4S.B3   |
| Conjugate                   | PE  |
| Excitation/Emission Max     | 565/576 nm  |
| Form                        | Liquid  |
| Concentration               | 0.2 mg/mL   |
| Purification                | Affinity chromatography   |
| Storage buffer              | PBS, pH 7.2   |
| Contains                    | 0.09% sodium azide  |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!                             |
| RRID                        | AB_1272169  |

| Applications                | Tested Dilution | Publications    |
|-----------------------------|-----------------|-----------------|
| Flow Cytometry (Flow)       | 0.25 µg/test    | 84 Publications |
| Miscellaneous PubMed (Misc) | -               | 1 Publication   |

## Product Specific Information

Description: The 4S.B3 monoclonal antibody reacts with interferon-gamma (IFN gamma). Human IFN gamma is a 17 kDa factor produced by activated T and NK cells and is an anti-viral and anti-parasitic cytokine. IFN gamma in synergy with other cytokines, such as TNF alpha, inhibits proliferation of normal and transformed cells. Immunomodulatory effects of IFN gamma are exerted on a wide range of cell types expressing the high affinity receptors for IFN gamma. Glycosylation of IFN gamma does not affect its biological activity.™

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Applications Reported: The 4S.B3 antibody has been reported for use in intracellular flow cytometric analysis.™

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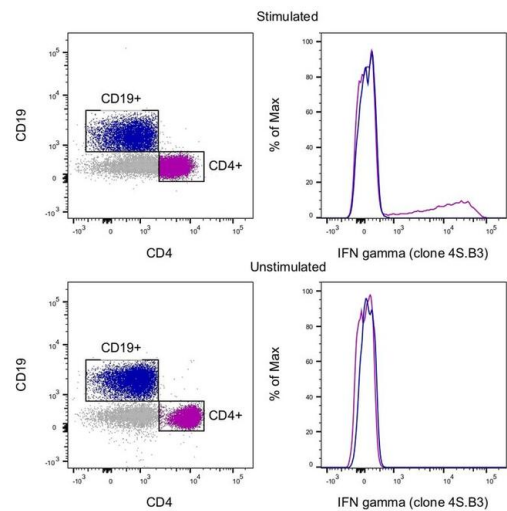
Applications Tested: This 4S.B3 antibody has been tested by flow cytometric analysis of activated human cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.™

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Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.™

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Filtration: 0.2 µm post-manufacturing filtered.



**IFN gamma Antibody (12-7319-81)**  
Intracellular staining of stimulated human peripheral blood cells. As expected based on known expression patterns, IFN gamma clone 4S.B3 stains a subset of CD4+ T cells only after stimulation and does not stain CD19+ B cells regardless of stimulation. Details: Normal human peripheral blood cells were cultured in the presence of Protein Transport Inhibitors (500X) (Unstimulated, bottom row) or Cell Stimulation Cocktail (plus protein transport inhibitors, 500X) for 5 hours (Stimulated, top row). Cells were fixed and permeabilized with the IC Fixation & Permeabilization Buffer Set and protocol followed by intracellular staining with CD19 (clone SJ25C1), CD4 (clone RPA-T4), and IFN gamma (clone 4S.B3). Cells in the CD19+ (blue histogram) or CD4+ (purple histogram) gates were used for analysis. {TM}

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85 References

Flow Cytometry (84)

|  |              |
|--|--------------|
| Frontiers in immunology  | Year<br>2023 |
| <b>Distinct SARS-CoV-2 specific NLRP3 and IL-1 responses in T cells of aging patients during acute COVID-19 infection.</b> |              |
| "Published figure using IFN gamma monoclonal antibody (Product # 12-7319-81) in Flow Cytometry"                            |              |
| Authors: Mahalingam SS,Jayaraman S,Arunkumar A,Dudley HM,Anthony DD,Shive CL,Jacobson JM,Pandiyan P                        |              |
| Molecular therapy oncolytics   | Year<br>2023 |
| <b>Nanobody-derived bispecific CAR-T cell therapy enhances the anti-tumor efficacy of T cell lymphoma treatment.</b>       |              |
| "Published figure using IFN gamma monoclonal antibody (Product # 12-7319-81) in Flow Cytometry"                            |              |
| Authors: Xia B,Lin K,Wang X,Chen F,Zhou M,Li Y,Lin Y,Qiao Y,Li R,Zhang W,He X,Zou F,Li L,Lu L,Chen C,Li W,Zhang H,Liu B    |              |

View more Flow references on thermofisher.com

Miscellaneous PubMed (1)

|  |                  |
|--|------------------|
| Journal of the American Chemical Society   | Year<br>2007     |
| <b>DNA-encoded antibody libraries: a unified platform for multiplexed cell sorting and detection of genes and proteins.</b>                    | Species<br>Mouse |
| "12-7319 was used in Immuno-assay to develop a method for spatially multiplexed detection of ssDNAs and proteins as well as for cell sorting." |                  |
| Authors: Bailey RC,Kwong GA,Radu CG,Witte ON,Heath JR  |                  |

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