

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	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
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1311247

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	56 Publications

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.

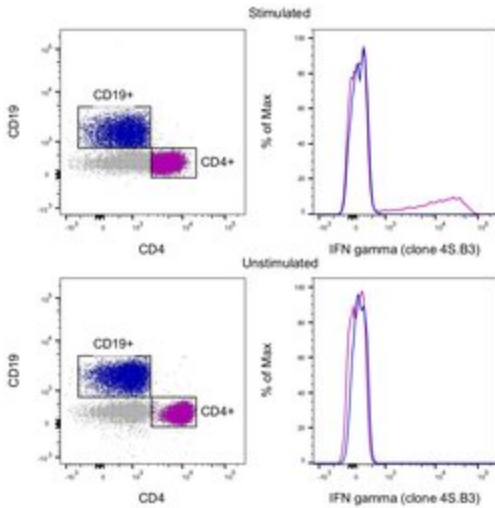
Applications Reported: The 4S.B3 antibody has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This 4S.B3 antibody is offered in 2 formats: - µg size: 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 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by flow cytometric analysis of activated human cells. This can be used at test size: 5 µL (0.125 µg) per test.

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

Filtration: 0.2 µm post-manufacturing filtered.

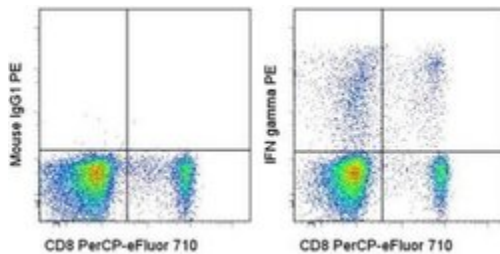
Advanced Verification Data



IFN gamma Antibody (12-7319-42)

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. Cell treatment validation info.

Product Images For IFN gamma Monoclonal Antibody (4S.B3), PE, eBioscience™



IFN gamma Antibody (12-7319-42) in Flow

Intracellular staining of stimulated normal human peripheral blood cells with Anti-Human CD8a PerCP-eFluor® 710 (Product # 46-0087-42) and Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human IFN gamma PE (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

56 References

Flow Cytometry (56)

Cell transplantation

Plasma Transfusion Promoted Reprogramming CD4⁺ T Lymphocytes Immune Response in Severe Sepsis Mice Model Through Modulating the Exosome Protein Galectin 9.

"12-7319 was used in Flow cytometry/Cell sorting to investigate the roles of fresh frozen plasma transfusion in severe sepsis mice model."

Authors: Zhang L,Zhang JP,Liu Y,Wang H,Cheng Y,Wang JH,Zhang WJ,Li ZZ,Guo JR

Species
Mouse

Dilution
Not Cited

Year
2021

Frontiers in immunology

A Method of Assessment of Human Natural Killer Cell Phenotype and Function in Whole Blood.

"Published figure using IFN gamma monoclonal antibody (Product # 12-7319-42) in Flow Cytometry"

Authors: Market M,Tennakoon G,Ng J,Scaffidi M,de Souza CT,Kennedy MA,Auer RC

Species
Not Applicable

Dilution
Not Cited

Year
2021

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More applications with references on thermofisher.com

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