

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

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Human, Mouse |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 4S.B3 |
| Conjugate | FITC |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.1% gelatin |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_465415 |

| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|-----------------|
| Immunocytochemistry (ICC/IF) | - | 1 Publication |
| Flow Cytometry (Flow) | 1 µg/test | 38 Publications |
| ELISA (ELISA) | - | 2 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.

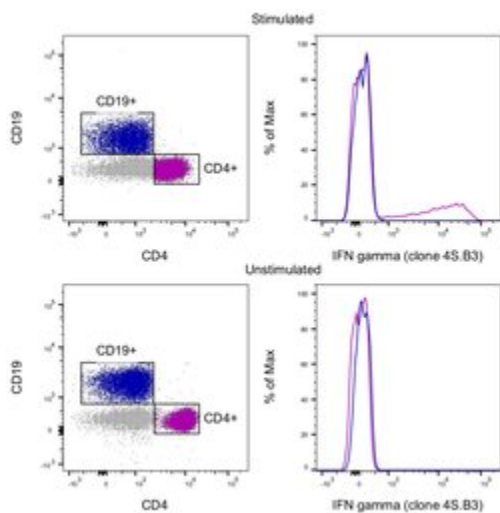
Applications Reported: The 4S.B3 antibody has been reported for use in intracellular staining for flow cytometric analysis.

Applications Tested: This 4S.B3 antibody is offered in 2 formats: - µg size: has been tested by intracellular flow cytometric analysis of activated human cells. This can be used at less than or equal to 1 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 intracellular flow cytometric analysis of activated human cells. This can be used at 5 µL (0.5 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

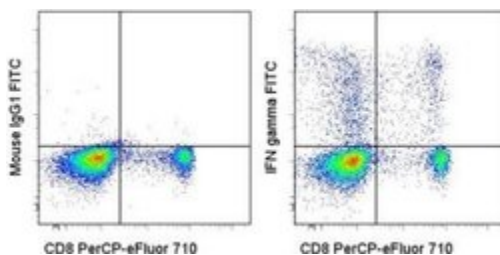
Advanced Verification Data



IFN gamma Antibody (11-7319-82)

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), FITC, eBioscience™



IFN gamma Antibody (11-7319-82) 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 FITC (Product # 11-4714-81) (left) or Anti-Human IFN gamma FITC (right). Cells in the lymphocyte gate were used for analysis.

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Immunocytochemistry (1)

International journal of cancer

NY-ESO-1 specific antibody and cellular responses in melanoma patients primed with NY-ESO-1 protein in ISCOMATRIX and boosted with recombinant NY-ESO-1 fowlpox virus.

"11-7319 was used in Immunocytochemistry-immunofluorescence to examine whether heterologous prime-boost strategies based on the combination with NY-ESO-1 ISCOMATRIX with different NY-ESO-1 boosting reagents could increase NY-ESO-1 CD8(+) or CD4(+) T cell responses."

Authors: Chen JL,Dawoodji A,Tarlton A,Gnjatic S,Tajar A,Karydis I,Browning J,Pratap S,Verfaillie C,Venhaus RR,Pan L, Altman DG,Cebon JS,Old LL,Nathan P,Ottensmeier C,Middleton M,Cerundolo V

Species
Human

Dilution
Not Cited

Year
2015

Flow Cytometry (38)

Frontiers in immunology

CXCR3⁺ T Follicular Helper Cells Induced by Co-Administration of RTS,S /AS01B and Viral-Vectored Vaccines Are Associated With Reduced Immunogenicity and Efficacy Against Malaria.

"11-7319 was used in Flow cytometry/Cell sorting to illustrate that while a multistage-targeting vaccine strategy could provide high-level efficacy, the regimen design will require careful optimization."

Authors: Bowyer G,Grobbelaar A,Rampling T,Venkatraman N,Morelle D,Ballou RW,Hill AVS,Ewer KJ

Species
Human

Dilution
1:250

Year
2022

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 # 11-7319-82) 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

[View more Flow references on thermofisher.com](#)

ELISA (2)

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 # 11-7319-82) 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

More applications with references on thermofisher.com

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