

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

| Product Details | |
|--------------------|--|
| Size | 50 µg |
| Species | Human |
| Published Species | Artificial Control, Rat, Human, Mouse, Rhesus monkey |
| Expression System | Mouse / IgG1, kappa |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 4S.B3 |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage Conditions | 4° C |
| RRID | AB_468477 |

| Applications | Tested Dilution | Publications |
|-------------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | Assay-Dependent | 42 Publications |
| ELISA (ELISA) | - | 2 Publications |
| Immunofluorescence (IF) | - | 1 Publication |
| Neutralization (Neu) | - | 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.

Applications Reported: Unlabeled 4S.B3 has been reported for use as a cold mAb control to block fluorochrome conjugated 4S.B3 in staining of intracellular IFN gamma.

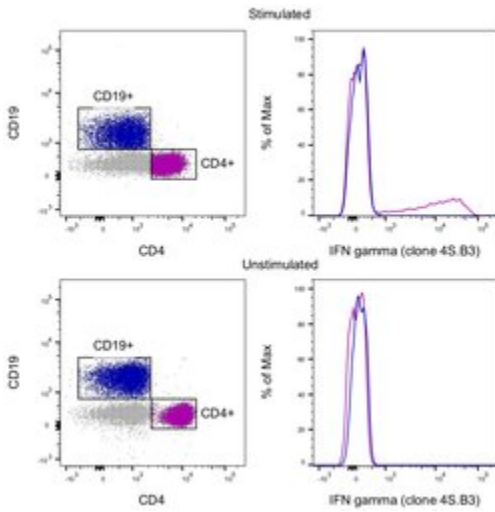
Applications Tested: The 4S.B3 antibody has been tested as a cold mAb control to block fluorochrome conjugated 4S.B3 in staining of intracellular IFN gamma. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



IFN gamma Antibody (14-7319-81)

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 and 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.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (42)

Oncoimmunology

Peritoneal carcinomatosis of colorectal cancer is characterized by structural and functional reorganization of the tumor microenvironment inducing senescence and proliferation arrest in cancer cells.

"Published figure using IFN gamma monoclonal antibody (Product # 14-7319-81) in Flow Cytometry"

Authors: Seebauer CT, Brunner S, Glockzin G, Pisoni P, Ruemmele P, Schlitt HJ, Geissler EK, Fichtner-Feigl S, Kesselring R

Species
Artificial Control

Dilution
Not Cited

Year
2020

Journal of extracellular vesicles

Dominant immunosuppression of dendritic cell function by prostate-cancer-derived exosomes.

"Published figure using IFN gamma monoclonal antibody (Product # 14-7319-81) in Flow Cytometry"

Authors: Salimu J, Webber J, Gurney M, Al-Taei S, Clayton A, Tabi Z

Species
Not Applicable

Dilution
Not Cited

Year
2020

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

Immunofluorescence (1)

Journal of immunology (Baltimore, Md. : 1950)

Microbe-specific unconventional T cells induce human neutrophil differentiation into antigen cross-presenting cells.

"14-7319 was used in Immunofluorescence to investigate how unconventional T cells represent key controllers of neutrophil-driven innate and adaptive responses to a broad range of pathogens."

Authors: Davey MS, Morgan MP, Liuzzi AR, Tyler CJ, Khan MWA, Szakmany T, Hall JE, Moser B, Eberl M

Species
Human

Dilution
Not Cited

Year
2014

ELISA (2)

The American journal of pathology

The impact of IFN- receptor on SLPI expression in active tuberculosis: association with disease severity.

"14-7319 was used in an ELISA assay to show that Mycobacterium tuberculosis-induced IFN- down-modulated SLPI levels by signalling through IFN-R in healthy donors."

Authors: Tateosian NL, Pasquinelli V, Hernández Del Pino RE, Ambrosi N, Guerrieri D, Pedraza-Sánchez S, Santucci N, D'Attilio L, Pellegrini J, Araujo-Solis MA, Musella RM, Palmero DJ, Hernandez-Pando R, Garcia VE, Chuluyan HE

Species
Human

Dilution
Not Cited

Year
2014

More applications with references on thermofisher.com

Neu (1)

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