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

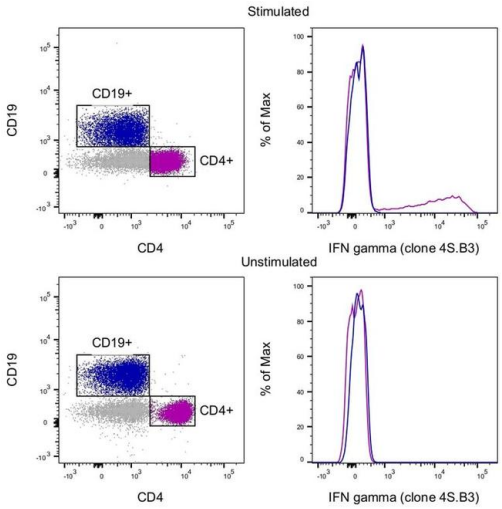
Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Rat, Mouse, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	4S.B3
Conjugate	PE
Excitation/Emission 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.^M
^M
Applications Reported: The 4S.B3 antibody has been reported for use in intracellular flow cytometric analysis.^M
^M
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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.^M
^M
Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.^M
^M
Filtration: 0.2 µm post-manufacturing filtered.

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



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}

View more figures on thermofisher.com

85 References

Flow Cytometry (84)

Frontiers in immunology

Distinct SARS-CoV-2 specific NLRP3 and IL-1 responses in T cells of aging patients during acute COVID-19 infection.

"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

Year
2023

Molecular therapy oncolytics

Nanobody-derived bispecific CAR-T cell therapy enhances the anti-tumor efficacy of T cell lymphoma treatment.

"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

Year
2023

View more Flow references on thermofisher.com

Miscellaneous PubMed (1)

Journal of the American Chemical Society

DNA-encoded antibody libraries: a unified platform for multiplexed cell sorting and detection of genes and proteins.

"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

Year
2007

Species
Mouse

More applications with references on thermofisher.com