

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.™

™

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

™

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.™

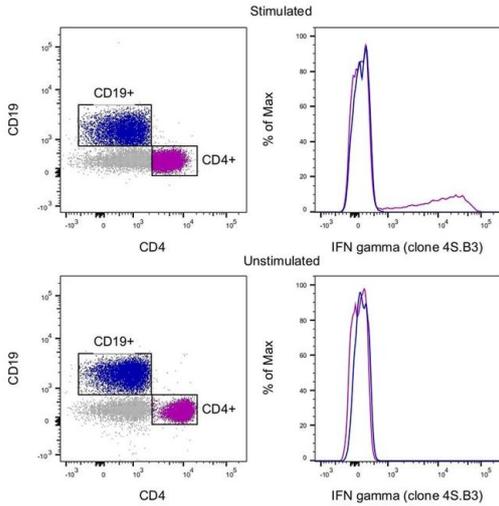
™

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

™

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

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.