



IFN gamma Monoclonal Antibody (4S.B3), eFluor™ 450, 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), eFluor™ 450, eBioscience™	
Class	Monoclonal	
Туре	Antibody	
Clone	4S.B3	
Conjugate	eFluor™ 450	
Excitation/Emission Max	405/445 nm	
Form	Liquid	
Concentration	5 μL/Test	
Purification	Affinity chromatography	
Storage buffer	PBS, pH 7.2, with 0.2% BSA	
Contains	0.09% sodium azide	
Storage conditions	4° C, store in dark, DO NOT FREEZE!	
RRID	AB_2043866	

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 μL (0.25 μg)/test	67 Publications
ELISA (ELISA)	-	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: This 4S.B3 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

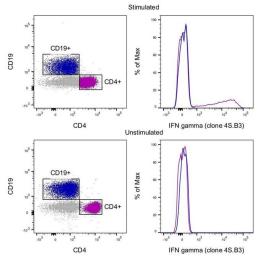
Applications Tested: This 4S.B3 antibody has been pre-titrated and tested by intracellular staining and flwo cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

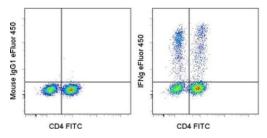
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IFN gamma Monoclonal Antibody (4S.B3), eFluor™ 450, eBioscience™



IFN gamma Antibody (48-7319-42)

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. {TM}



IFN gamma Antibody (48-7319-42) in Flow

Intracellular staining of 5-hour PMA/ionomycin stimulated normal human peripheral blood cells (in the presence of Brefeldin A) with Anti-Human CD4 FITC (Product # 11-0049-42) and Mouse IgG1 K Isotype Control eFluor® 450 (Product # 48-4714-82) (left) or Anti-Human IFN gamma eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

□ 69 References

Immunohistochemistry (1)

Journal of translational medicine

Niraparib exhibits a synergistic anti-tumor effect with PD-L1 blockade by inducing an immune response in ovarian cancer.

"Published figure using IFN gamma monoclonal antibody (Product # 48-7319-42) in Flow Cytometry"

Authors: Meng J,Peng J,Feng J,Maurer J,Li X,Li Y,Yao S,Chu R,Pan X,Li J,Zhang T,Liu L,Zhang Q,Yuan Z,Bu H,Song K,Kong B

Year 2021

Flow Cytometry (67)

Cellular signalling

Everolimus combined with PD-1 blockade inhibits progression of triplenegative breast cancer.

"48-7319-42 was used in Flow Cytometry to find that treatment with EVE increased PD-L1 expression in intratumoral vascular endothelial cells, and this increase in endothelial cell-associated PD-L1 corresponded to reduced CD8 + T cell tumor infiltration."

Authors: Li G,Hu J,Cho C,Cui J,Li A,Ren P,Zhou J,Wei W,Zhang T,Liu X,Liu W

Year 2023

Species Mouse

Dilution 1:100

Cell & bioscience

GPR116 receptor regulates the antitumor function of NK cells via Gq/HIF1/NF-B signaling pathway as a potential immune checkpoint.

"Published figure using IFN gamma monoclonal antibody (Product # 48-7319-42) in Flow Cytometry"

Authors: Guo D,Jin C,Gao Y,Lin H,Zhang L,Zhou Y,Yao J,Duan Y,Ren Y,Hui X,Ge Y,Yang R,Jiang W

Year 2023

View more Flow references on thermofisher.com

ELISA (1)

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 # 48-7319-42) in ELISA" Authors: Market M,Tennakoon G,Ng J,Scaffidi M,de Souza CT,Kennedy MA,Auer RC

Year 2021

More applications with references on thermofisher.com

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