

IFN gamma Monoclonal Antibody (XMG1.2), PE, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	XMG1.2
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA, 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1907418

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	150 Publications
Immunocytochemistry (ICC)	-	2 Publications
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication

Product Specific Information

Description: The XMG1.2 antibody reacts with mouse interferon (IFN) gamma. The XMG1.2 antibody is a neutralizing antibody. Mouse IFN gamma is a 20 kDa factor produced by activated T, B 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 XMG1.2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

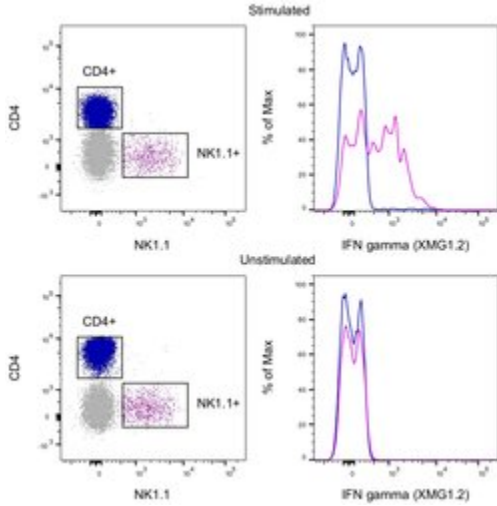
Applications Tested: This XMG1.2 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Intracellular Fixation and Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online. 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.

Advanced Verification Data



IFN gamma Antibody (12-7311-41)

Intracellular staining of stimulated mouse splenocytes. As expected based on known expression patterns, IFN gamma clone XMG1.2 stains a minor subset of CD4+ T cells and a larger subset of NK1.1+ NK cells with no staining observed without stimulation. Details: Mouse splenocytes 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 CD4 (clone RM4-5), NK1.1 (clone PK136) and IFN gamma (clone XMG1.2). Cells in the CD4+ (blue histogram) or NK1.1+ (purple histogram) gates were used for analysis. Cell treatment validation info.

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Flow Cytometry (150)

Frontiers in immunology

A New Adjuvant MTOM Mediates *Mycobacterium tuberculosis* Subunit Vaccine to Enhance Th1-Type T Cell Immune Responses and IL-2⁺ T Cells.

"Published figure using IFN gamma monoclonal antibody (Product # 12-7311-41) in Flow Cytometry"

Authors: Yu Q,Wang X,Fan X

Species
Not Applicable

Dilution
Not Cited

Year
2019

F1000Research

Myelin-specific T helper 17 cells promote adult hippocampal neurogenesis through indirect mechanisms.

"Published figure using IFN gamma monoclonal antibody (Product # 12-7311-41) in Flow Cytometry"

Authors: Niebling J,E Rünker A,Schallenberg S,Kretschmer K,Kempermann G

Species
Not Applicable

Dilution
Not Cited

Year
2019

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

Immunocytochemistry (2)

Infection and immunity

Distinct Contributions of CD4⁺ and CD8⁺ T Cells to Pathogenesis of *Trypanosoma brucei* Infection in the Context of Gamma Interferon and Interleukin-10.

"12-7311 was used in Immunocytochemistry to study the distinct roles of CD4 and CD8 T cells in the context of IFN- and IL-10 during *Trypanosoma brucei* infections."

Authors: Liu G,Sun D,Wu H,Zhang M,Huan H,Xu J,Zhang X,Zhou H,Shi M

Species
Mouse

Dilution
Not Cited

Year
2015

Journal of immunology (Baltimore, Md. : 1950)

Increased killing of liver NK cells by Fas/Fas ligand and NKG2D/NKG2D ligand contributes to hepatocyte necrosis in virus-induced liver failure.

"12-7311 was used in Immunocytochemistry to reveal a pivotal role for liver natural killer cells in the pathogenesis of virus-induced fulminant hepatic failure and acute-on-chronic liver failure."

Authors: Zou Y,Chen T,Han M,Wang H,Yan W,Song G,Wu Z,Wang X,Zhu C,Luo X,Ning Q

Species
Mouse

Dilution
Not Cited

Year
2010

More applications with references on thermofisher.com

IHC (1) IF (1)

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