

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

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	XMG1.2
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_466192

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	299 Publications
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	2 Publications

## 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.

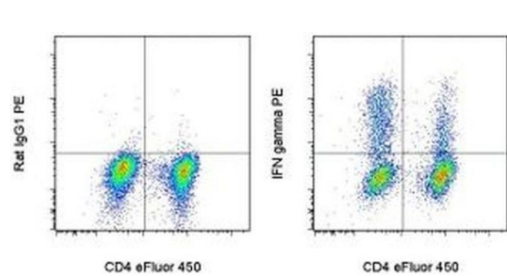
**Applications Tested:** This XMG1.2 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

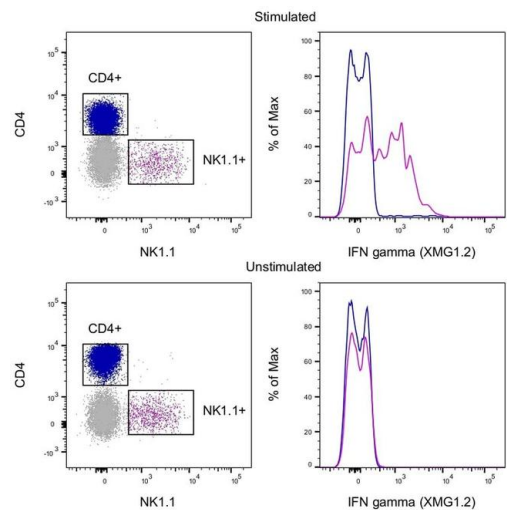
Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



**IFN gamma Antibody (12-7311-81) in Flow**  
Mouse splenocytes were stimulated with Con A for 2 days then restimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) for 5 hours. Cells were then surface stained with Anti-Mouse CD4 eFluor® 450 (Product # 48-0042-82) followed by intracellular staining with 0.125 µg of Rat IgG2a K Isotype Control PE (Product # 12-4301-82) (left) or 0.125 µg of Anti-Mouse IFN gamma PE (right) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Total viable cells, as determined by Fixable Viability Dye eFluor® 506 (Product # 65-0866-14), were used for analysis.



**IFN gamma Antibody (12-7311-81)**  
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 & 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. {TM}

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Immunohistochemistry (1)

<p>PLoS pathogens</p> <p><b>IL-22 and IDO1 affect immunity and tolerance to murine and human vaginal candidiasis.</b></p> <p>"12-7311 was used in Immunohistochemistry to study host resistance and tolerance to the commensal fungus, Candida albicans, during vulvovaginal candidiasis."</p> <p>Authors: De Luca A,Carvalho A,Cunha C,Iannitti RG,Pitzurra L,Giovannini G,Mencacci A,Bartolommei L,Moretti S,Massi-Benedetti C,Fuchs D,De Bernardis F,Puccetti P,Romani L</p>	<p>Year 2014</p> <p>Species Human Mouse</p>
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Immunocytochemistry (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>Transplantation survival is maintained by granzyme B+ regulatory cells and adaptive regulatory T cells.</b></p> <p>"12-7311 was used in Immunocytochemistry to implicate granzyme B expression by regulatory T cells in sustaining long-lived graft survival."</p> <p>Authors: Gondek DC,Devries V,Nowak EC,Lu LF,Bennett KA,Scott ZA,Noelle RJ</p>	<p>Year 2008</p> <p>Species Mouse</p>
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Flow Cytometry (299)

<p>Therapeutic advances in chronic disease</p> <p><b>Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 12-7311-82) in Flow Cytometry"</p> <p>Authors: Pfeil J,Simonetti M,Lauer U,von Thülen B,Durek P,Poulsen C,Pawlowska J,Kröger M,Krähmer R,Leenders F,Hoffmann U,Hamann A</p>	<p>Year 2023</p>
<p>Cellular and molecular gastroenterology and hepatology</p> <p><b>Klebsiella pneumoniae Induces Inflammatory Bowel Disease Through Caspase-11-Mediated IL18 in the Gut Epithelial Cells.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 12-7311-82) in Flow Cytometry"</p> <p>Authors: Zhang Q,Su X,Zhang C,Chen W,Wang Y,Yang X,Liu D,Zhang Y,Yang R</p>	<p>Year 2023</p>

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More applications with references on thermofisher.com

- ELISA (1)
- Neu (1)
- ISH (2)

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