

# IFN gamma Monoclonal Antibody (XMG1.2), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	XMG1.2
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_2688061

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	85 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. This can be used at less than or equal to 0.06 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.

APC-eFluor™ 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

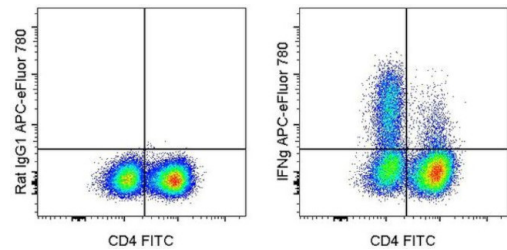
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

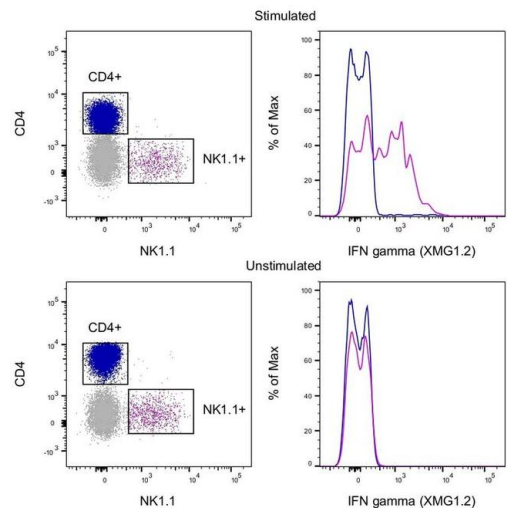
Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IFN gamma Monoclonal Antibody (XMG1.2), APC-eFluor™ 780, eBioscience™



**IFN gamma Antibody (47-7311-82) in Flow**  
Intracellular staining of Mouse Cytokine Positive Control Cells (Product # 00-4500-51) with Anti-Mouse CD4 FITC (Product # 11-0041-82) and 0.03 µg of Rat IgG1 kappa Isotype Control APC-eFluor® 780 (Product # 47-4301-80) (left) or Anti-Mouse IFN gamma APC-eFluor® 780 (right). Total cells were used for analysis.



**IFN gamma Antibody (47-7311-82)**  
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)

Cells	Year 2021
<b>Knockout of the KH-Type Splicing Regulatory Protein Drives Glomerulonephritis in MRL-Fas<sup>lpr</sup> Mice.</b>	
"Published figure using IFN gamma monoclonal antibody (Product # 47-7311-82) in Immunohistochemistry"	
Authors: Schmidtke L, Meineck M, Saurin S, Otten S, Gather F, Schrick K, Käfer R, Roth W, Kleinert H, Weinmann-Menke J, Pautz A	

## Flow Cytometry (85)

Therapeutic advances in chronic disease	Year 2023
<b>Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.</b>	
"Published figure using IFN gamma monoclonal antibody (Product # 47-7311-82) in Flow Cytometry"	
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	

Cellular and molecular gastroenterology and hepatology	Year 2023
<b>Klebsiella pneumoniae Induces Inflammatory Bowel Disease Through Caspase-11-Mediated IL18 in the Gut Epithelial Cells.</b>	
"Published figure using IFN gamma monoclonal antibody (Product # 47-7311-82) in Flow Cytometry"	
Authors: Zhang Q, Su X, Zhang C, Chen W, Wang Y, Yang X, Liu D, Zhang Y, Yang R	

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## More applications with references on thermofisher.com

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