

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

Product Details	
Size	100 µg
Species	Mouse
Published Species	Artificial Control, Mouse, Human
Expression System	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	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466193

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	208 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	2 Publications
Neutralization (Neu)	-	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.

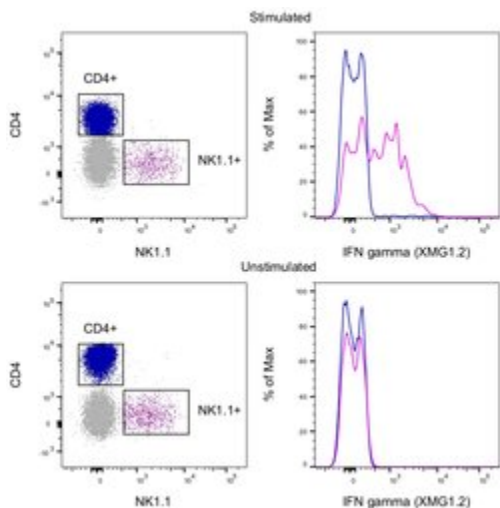
**Applications Tested:** This XMG1.2 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Intracellular Fixation and Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to

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 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.

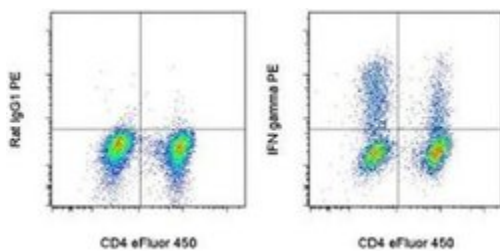
## Advanced Verification Data



### IFN gamma Antibody (12-7311-82)

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 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.

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



### IFN gamma Antibody (12-7311-82) 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 (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.

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## Flow Cytometry (208)

### Oncoimmunology

#### The stress kinase GCN2 does not mediate suppression of antitumor T cell responses by tryptophan catabolism in experimental melanomas.

"12-7311 was used in Flow cytometry/Cell sorting to investigate whether GCN2 attenuates tumour rejection in experimental B16 melanoma using T cell-specific Gcn2-KO mice."

Authors: Sonner JK, Deumelandt K, Ott M, Thomé CM, Rauschenbach KJ, Schulz S, Munteanu B, Mohapatra S, Adam I, Hofer AC, Feuerer M, Opitz CA, Hopf C, Wick W, Platten M

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2021

### Oncoimmunology

#### T cell inhibitory mechanisms in a model of aggressive Non-Hodgkin's Lymphoma.

"12-7311 was used in Flow cytometry/Cell sorting to study T cell function in Eμ-myc transgenic mice that develop an aggressive B cell lymphoma with some similarities to human Burkitt-lymphoma."

Authors: Hilmenyuk T, Ruckstuhl CA, Hayoz M, Berchtold C, Nuoffer JM, Solanki S, Keun HC, Beavis PA, Riether C, Ochsenbein AF

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2021

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

## In Situ Hybridization (ISH) (2)

### Critical reviews in immunology

#### Measuring T Cell Responses by Flow Cytometry-Based Fluorescence In Situ Hybridization.

Authors: Freen-van Heeren JJ, Nicolet BP, Wolkers MC

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

### Journal of immunology (Baltimore, Md. : 1950)

#### Costimulation through TLR2 Drives Polyfunctional CD8<sup>+</sup> T Cell Responses.

Authors: Salerno F, Freen-van Heeren JJ, Guislain A, Nicolet BP, Wolkers MC

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

## More applications with references on thermofisher.com

IHC (1) ICC (1) IF (1) Neu (1)

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