

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotope	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	XMG1.2
Conjugate	APC
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_469504

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	162 Publications
Immunofluorescence (IF)	-	1 Publication

## Product Specific Information

**Description:** The XMG1.2 antibody reacts with mouse interferon-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.

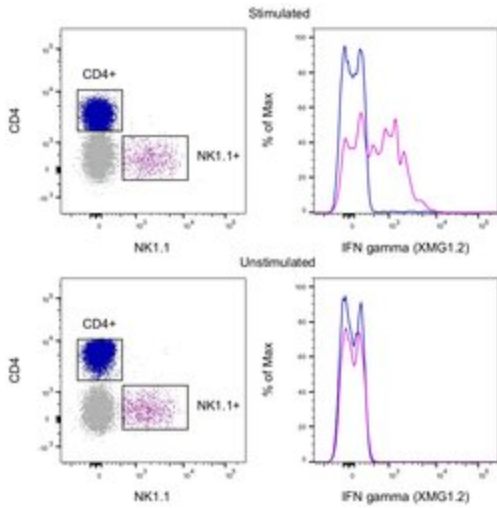
**Applications Reported:** This XMG1.2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** The APC conjugated XMG1.2 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes and can be used at less than or equal to 0.125 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:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

## Advanced Verification Data



### IFN gamma Antibody (17-7311-82)

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.

## Flow Cytometry (162)

Frontiers in immunology

### Induction of Broad-Spectrum Protective Immunity against Disparate *Cryptococcus* Serotypes.

Authors: Van Dyke MCC, Chaturvedi AK, Hardison SE, Leopold Wager CM, Castro-Lopez N, Hole CR, Wozniak KL, Wormley FL

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

Frontiers in immunology

### Critical Role for Very-Long Chain Sphingolipids in Invariant Natural Killer T Cell Development and Homeostasis.

"17-7311 was used in Flow cytometry/Cell sorting to identify a role for very-long acyl chain sphingolipids in invariant natural killer T cell maturation in the thymus and homeostasis in the liver."

Authors: Saroha A, Pewzner-Jung Y, Ferreira NS, Sharma P, Jouan Y, Kelly SL, Feldmesser E, Merrill AH, Trottein F, Paget C, Lang KS, Futerman AH

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

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

## Immunofluorescence (1)

Infection and immunity

### Leishmania-infected macrophages are targets of NK cell-derived cytokines but not of NK cell cytotoxicity.

"17-7311 was used in Immunocytochemistry to study whether natural killer cells contribute to the control of Leishmania infections by lysing or by activating infected host cells."

Authors: Prajeeth CK, Haeberlein S, Sebald H, Schleicher U, Bogdan C

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2011

## More applications with references on thermofisher.com

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