

## Anti-Mouse IFN gamma Alexa Fluor® 488

**Catalog Number:** 53-7311

**Also Known As:** Interferon-gamma, IFN-g, IFNg

**For Research Use Only. Not for use in diagnostic procedures.**

### Product Information


**Contents:** Anti-Mouse IFN gamma Alexa Fluor® 488

**REF** **Catalog Number:** 53-7311


**Clone:** XMG1.2


**Host/Isotype:** Rat IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### 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 0.5 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.

### References

Kimura A, Naka T, Kishimoto T. IL-6-dependent and -independent pathways in the development of interleukin 17-producing T helper cells. *Proc Natl Acad Sci U S A*. 2007 Jul 17;104(29):12099-104. (**XMG1.2**, IC flow, PubMed)

Zhang Y, Xu G, Zhang L, Roberts AI, Shi Y. Th17 cells undergo Fas-mediated activation-induced cell death independent of IFN-gamma. *J Immunol*. 2008 Jul 1;181(1):190-6. (**XMG1.2**, IC flow, PubMed)

Cho KS, Hill AB. T cell acquisition of APC membrane can impact interpretation of adoptive transfer experiments using CD45 congenic mouse strains. *J Immunol Methods*. 2008 Jan 31;330(1-2):137-45. (**XMG1.2**, IC flow, PubMed)

Feng X, Akiyoshi DE, Sheoran A, Singh I, Hanawalt J, Zhang Q, Widmer G, Tzipori S. Serial propagation of the microsporidian *Enterocytozoon bieneusi* of human origin in immunocompromised rodents. *Infect Immun*. 2006 Aug;74(8):4424-9. (**XMG1.2**, FA)

Hidalgo LG, Urmson J, Halloran PF. IFN-gamma decreases CTL generation by limiting IL-2 production: A feedback loop controlling effector cell production. *Am J Transplant*. 2005 Apr;5(4 Pt 1):651-61. (**XMG1.2**, NU, PubMed)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev*. 1992 Jun;127:5-24.

### Related Products

13-7312 Anti-Mouse IFN gamma Biotin (R4-6A2)

14-7312 Anti-Mouse IFN gamma Purified (R4-6A2)

14-7313 Anti-Mouse IFN gamma Purified (AN-18)

16-7312 Anti-Mouse IFN gamma Functional Grade Purified (R4-6A2)

16-7313 Anti-Mouse IFN gamma Functional Grade Purified (AN-18)

36-7312 Anti-Mouse IFN gamma Functional Grade Biotin (R4-6A2)

88-7914 Mouse IFNg (Interferon-gamma, IFN-g) ELISA Ready-SET-Go! Kit (To be discontinued. See replacement item BMS606)

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