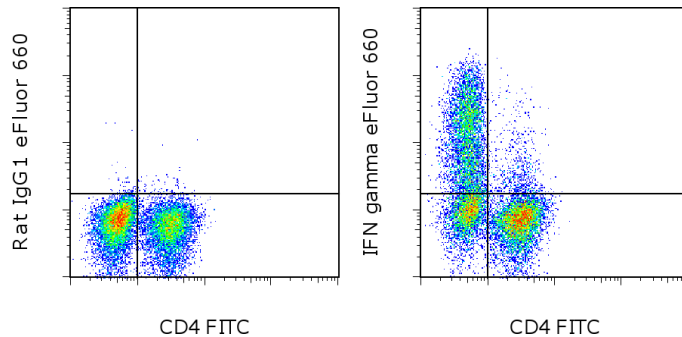


## Anti-Mouse IFN gamma eFluor<sup>®</sup> 660 (Alexa Fluor<sup>®</sup> 647 Replacement)

**Catalog Number:** 50-7311

**Also known as:** Interferon-gamma, IFN-g, IFNg

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



Intracellular staining of Con A-stimulated C57Bl/6 splenocytes with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.25 ug of Rat IgG1 K Isotype Control eFluor<sup>®</sup> 660 (cat. 50-4301) (left) or 0.25 ug of Anti-Mouse IFN gamma eFluor<sup>®</sup> 660 (right) using the Fixation and Permeabilization Buffers (cat. 88-8823). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse IFN gamma eFluor<sup>®</sup> 660 (Alexa Fluor<sup>®</sup> 647 Replacement)

**Catalog Number:** 50-7311

**Clone:** XMG1.2

**Concentration:** 0.2 mg/mL

**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.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**

REF



LOT



### 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.

**eFluor<sup>®</sup> 660 is a replacement for Alexa Fluor<sup>®</sup> 647. eFluor<sup>®</sup> 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.**

### References

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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

11-0042 Anti-Mouse CD4 FITC (RM4-5)

50-4301 Rat IgG1 K Isotype Control eFluor® 660

88-8823 Fixation & Permeabilization Buffers

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