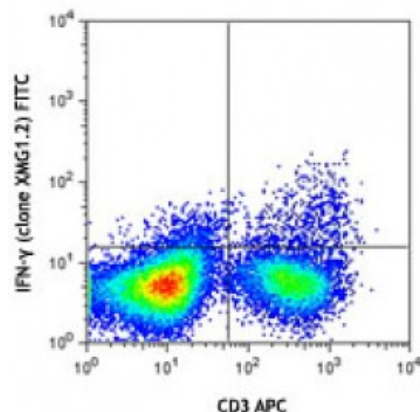


FITC anti-mouse IFN- γ

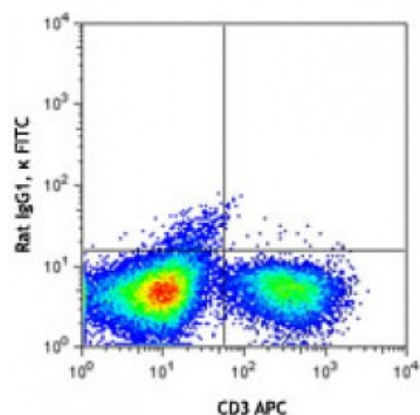
Catalog # / Size:	3129025 / 25 μ g 3129030 / 100 μ g
Clone:	XMG1.2
Isotype:	Rat IgG1, κ
Immunogen:	<i>E. coli</i> -expressed, recombinant mouse IFN- γ
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 mouse splenocytes were stimulated with PMA + Ionomycin for 6 hours (in the presence of monensin), stained with CD3 APC, fixed, permeabilized, and then stained with IFN- γ (clone XMG1.2) FITC (top) or rat IgG1, κ FITC isotype control (bo

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes:	ELISA^{1-4,11,14} or ELISPOT5 Detection: The biotinylated XMG1.2 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified R4-6A2 antibody (Cat. No. 505702/505706) as the capture antibody and recombinant mouse IFN- γ (Cat. No. 575309) as the standard. ELISA or ELISPOT Capture: The purified XMG1.2 antibody is useful as a capture antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with biotinylated R4-6A2 antibody (Cat. No. 505704) as the detection antibody and recombinant mouse IFN- γ (Cat. No. 575309) as the standard. The LEAF™ purified antibody
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is suggested for ELISPOT capture (Cat. No. 505812).

Flow Cytometry^{7,8,12,13,16}: The fluorochrome-labeled XMG1.2 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN- γ -producing cells within mixed cell populations.

Neutralization^{1-3,9,10}: The XMG1.2 antibody can neutralize the bioactivity of natural or recombinant IFN- γ . The LEAF[™] purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for neutralization of mouse IFN- γ bioactivity *in vivo* and *in vitro* (Cat. No. 505812). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF[™] purified antibody (Cat. No. 505834) with a lower endotoxin limit than standard LEAF[™] purified antibodies (Endotoxin <0.01 EU/microg).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of frozen tissue sections^{6,22,23}, and immunocytochemistry.
Note: For testing mouse IFN- γ in serum, plasma or supernatant, BioLegend's ELISA Max[™] Sets (Cat. No. 430801 to 430806) are specially developed and recommended.

**Application
References:**

1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. (ELISA, Neut)
2. Sander B, *et al.* 1993. *J. Immunol. Meth.* 166:201. (ELISA, Neut)
3. Abrams J, *et al.* 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20. (ELISA, Neut)
4. Yang X, *et al.* 1993. *J. Immunoassay* 14:129. (ELISA)
5. Klinman D, *et al.* 1994. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.19. (ELISPOT)
6. Sander B, *et al.* 1991. *Immunol. Rev.* 119:65. (IHC)
7. Ferrick D, *et al.* 1995. *Nature* 373:255. (FC)
8. Ko SY, *et al.* 2005. *J. Immunol.* 175:3309. (FC) [PubMed](#)
9. Peterson KE, *et al.* 2000. *J. Virol.* 74:5363. (Neut)
10. DeKrey GK, *et al.* 1998. *Infect. Immun.* 66:827. (Neut)
11. Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113. (ELISA)
12. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC)
13. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181. (FC) [PubMed](#)
14. Xu G, *et al.* 2007. *J. Immunol.* 179:5358. (ELISA) [PubMed](#)
15. Montfort M, *et al.* 2004. *J. Immunol.* 173:4084. [PubMed](#)
16. Haring JS, *et al.* 2008. *J. Immunol.* 180:2855. (FC) [PubMed](#)
17. Jordan JM, *et al.* 2008. *Infect Immun.* 76:3717. [PubMed](#)
18. Tonkin DR, *et al.* 2008. *J. Immunol.* 181:4516. [PubMed](#)
19. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
20. Cui Y, *et al.* 2009. *Invest. Ophth. Vis. Sci.* 50:5811. (FC) [PubMed](#)
21. Mykkanen OT, *et al.* 2014. *PLoS One.* 9:114790. [PubMed](#)
22. Yokogawa M, *et al.* 2013. *Mol. Carcinog.* 52:760. (IHC)
23. Mottram PL, *et al.* 1998. *J Immunol.* 161:602. (IHC)

Description: IFN- γ is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally characterized based on anti-viral activities, IFN- γ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN- γ can upregulate MHC class I and II antigen expression by antigen-presenting cells.

- Antigen**
References:
1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
 2. De Maeyer E, *et al.* 1992. *Curr. Opin. Immunol.* 4:321.
 3. Farrar M, *et al.* 1993. *Annu. Rev. Immunol.* 11:571