

Biotin anti-mouse IFN- γ

Catalog # / Size: 3129020 / 500 μ g
3129015 / 50 μ g

Clone: XMG1.2

Isotype: Rat IgG1, κ

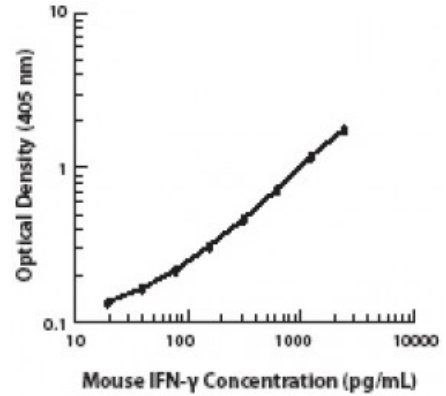
Immunogen: *E. coli*-expressed, recombinant mouse IFN- γ

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



Applications:

Applications: Other

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.5-2.0 microg/ml is recommended. To obtain a linear standard curve, serial dilutions of IFN- γ recombinant protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate.
For use as an ELISPOT detection antibody, a concentration range of 1-4 microg/ml is recommended. 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 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:
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 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)
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 11. Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113. (ELISA)
 12. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC)
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 16. Haring JS, *et al.* 2008. *J. Immunol.* 180:2855. (FC) [PubMed](#)
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 22. Yokogawa M, *et al.* 2013. *Mol. Carcinog.* 52:760. (IHC)
 23. Mottram PL, *et al.* 1998. *J Immunol.* 161:602. (IHC)
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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