

Product Data Sheet

Biotin anti-mouse IFN- γ



Applications:

Applications: ELISA Detection, ELISPOT Detection, ICFC

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 μg/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 µg/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. 5058) as the stationard. The EEAT pullined antibody is **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 The purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm 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-LEAFTM purified antibody (Cat. No. 505834) with a lower endotoxin limit than standard LEAFTM purified antibodies (Endotoxin <0.01 EU/µg).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections⁶, 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)

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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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 Peterson KE, *et al.* 2000. *J. Virol.* 74:5363. (Neut)
 DeKrey GK, *et al.* 1998. *Infect. Immunol.* 66:827. (Neut)
 Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113. (ELISA)
 Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC)
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Description: Interferon-y 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.

- 4. Gray P, et al. 1987. Lymphokines 13:151.

Related Products: Product LEAF™ Purified anti-mouse IFN-γ	Clone R4-6A2	Application ELISA Capture, ELISPOT Capture, IHC, Neut	
Purified anti-mouse IFN-γ	R4-6A2	ELISA Capture IHC	
Recombinant Mouse IFN-γ HRP Avidin	rm IFN-γ Avidin	BA, ELISA ELISA, ELISPOT, IHC, WB	
TMB Substrate Reagent Set ELISA Assay Diluent (5X) Mouse IFN-γ ELISA MAX™ Standard Mouse IFN-γ ELISA MAX™ Deluxe		ELISA ELISA ELISA ELISA ELISA	



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