

Product Data Sheet

Purified anti-mouse IFN-γ

Catalog # / Size: 505701 / 50 µg

505702 / 500 µg

Clone: R4-6A2 **Isotype:** Rat lgG1, κ

Immunogen: Partially-purified, native mouse IFN-γ

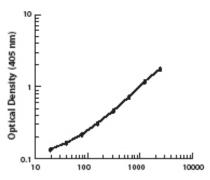
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Mouse IFN-γ Concentration (pg/mL)

Applications:

Applications: ELISA Capture-Quality tested

IHC - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, 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. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: ELISA Capture^{1-4,6,10,11} or ELISPOT Capture⁵: The purified R4-6A2 antibody is useful as the capture antibody in a

sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated XMG1.2 antibody (Cat. No. 505804) as the detecting antibody and recombinant mouse IFN-γ (Cat. No. 575309) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture.

ELISA or ELISPOT Detection: The biotinylated R4-6A2 antibody is useful as the detecting antibody in a sandwich ELISA or ELISPOT Detection: The biotinylated R4-6A2 antibody is useful as the detecting antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified XMG1.2 antibody (Cat. No. 505802/505812) as the capture antibody and recombinant mouse IFN-γ (Cat. No. 575309) as the standard.

Neutralization^{1,2,9}: The LEAF™ 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. 505706).

Additional reported applications (for the relevant formats) include: immunohistochemical staining^{3,6,8} of

acetone-fixed frozen tissue sections and paraformaldehyde-fixed, saponin-treated frozen tissue sections.

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.

Stevenson, M., et al. 1990. Infect. Immun. 58:3225.

3. Sander, B., *et al.* 1993. *J. Immunol. Meth.* 166:201. 4. Yang, X., *et al.* 1993. *J. Immunoassay* 14:129.

5. Klinman, D., et al. 1994. Curr. Prot. Immunol.. John Wiley and Sons, New York. Unit 6.19. 6. Sander, B., et al. 1991. Immunol. Rev. 119:65.

7. Finkelman, F., et al. 2003. Curr. Prot. Immunol. John Wiley & Sons, New York. Unit 6.28.

8. Khanna, A., et al. 2000. J. Immunol. 164:1346.

9. Terrazas, L. I., *et al.* 2005. *Intl. J. Parasitology.* 35:1349. 10. Dzhagalov, I., *et al.* 2007. *J. Immunol.* 178:2113.

11. Xu, G., et al. 2007. J. Immunol. 179:5358.

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. The R4-6A2 antibody reacts with mouse interferon-gamma (IFN-γ). The R4-6A2 antibody can neutralize the bioactivity

of natural or recombinant IFN-γ.

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 Clone Application

XMG1.2 Biotin anti-mouse IFN-γ ELISA Detection, ELISPOT Detection, ICFC

rm IFN-γ Recombinant Mouse IFN-γ BA, ELISA



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HRP Avidin TMB Substrate Reagent Set ELISA Assay Diluent (5X) Mouse IFN-γ ELISA MAX™ Standard Mouse IFN-γ ELISA MAX™ Deluxe

Avidin

ELISA, ELISPOT, IHC, WB ELISA ELISA ELISA ELISA



