

Product Data Sheet

LEAF™ Purified anti-human IFN-γ

Catalog # / Size: 507513 / 500 µg

Clone: MD-1

Isotype: Mouse IgG1, κ

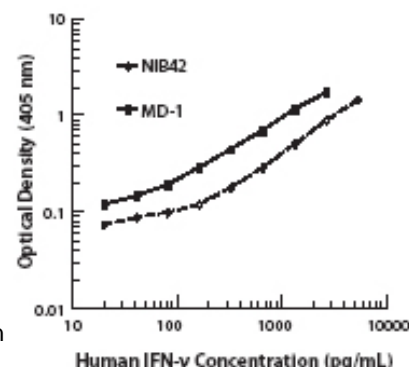
Reactivity: Human, **Cross-Reactivity*:** Chimpanzee, Baboon, Cynomolgus, Rhesus

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture - *Quality tested*
 ELISPOT Capture, Neut, ICFC, IHC, WB - *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 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IFN-γ recombinant protein ranging from 1000 to 8 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^{1,2,5} and ELISPOT^{3,4} Capture:** The Purified MD-1 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 4S.B3 (Cat. No. 502504/502514) antibody as the detecting antibody and recombinant human IFN-γ (Cat. No. 562101) as the standard. The LEAF™ Purified antibody is suggested for ELISPOT capture. For ELISPOT capture applications, a concentration range of 0.5-2 µg/ml is recommended.

Neutralization¹: The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IFN-γ bioactivity (Cat. No. 507513).

Additional reported applications (for the relevant formats) include: Western blotting^{1,2}, intracellular staining for flow cytometry⁶, and immunohistochemical staining⁷ of paraformaldehyde-fixed, saponin-treated frozen tissue sections.

Note: For testing human IFN-γ in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 430101 to 430106) are specially developed and recommended.

Application References:

1. Van der Meide P, *et al.* 1985. *J. Immuno. Meth.* 79:293.
2. Yazdanbakhsh M, *et al.* 1993. *Eur. J. Immuno.* 23:3312.
3. Besouw N, *et al.* 1994. *J. Med. Primatol.* 23:42.
4. Van der Meide P, *et al.* 1995. *J. Med. Primatol.* 24:271.
5. Hilken C, *et al.* 1996. *J. Immunol.* 156:1722.
6. Hamann D, *et al.* 1996. *J. Immunol.* 156:1387.
7. Wassenaar A, *et al.* 1995. *Infect. Immunity.* 63:2147.

Description: Interferon-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. The 4S.B3 antibody reacts with the human IFN-γ. The MD-1 antibody reacts with human and monkey interferon-gamma (IFN-γ). The MD-1 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
 Biotin anti-human IFN-γ

LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
 Recombinant Human IFN-γ
 HRP Avidin

Clone
 4S.B3

MOPC-21
 rh IFN-γ
 Avidin

Application

ELISA Detection, ELISPOT
 Detection, ICFC
 FC, ICFC, WB, IP, ICC, IF, FA
 BA, ELISA
 ELISA, ELISPOT, IHC, WB



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