BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-human IFN-γ

Catalog # / Size: 502403 / 50 µg
502404 / 500 µg

Clone: NIB42

Isotype: Mouse IgG1, κ

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

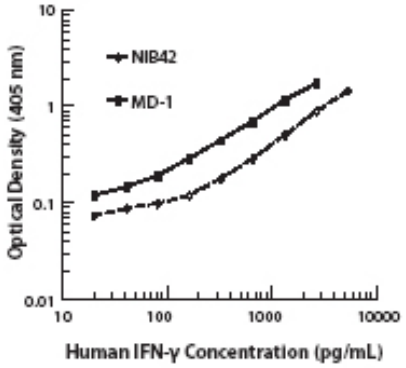
Reactivity: Human

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 - *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 or ELISPOT Capture[2]:** The purified NIB42 antibody is useful as the capture antibody in a sandwich ELISA, when used in conjunction with the biotinylated 4S.B3 antibody (Cat. No. 502504/502514) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture. For ELISPOT capture applications, a concentration range of 0.5-2 µg/ml is recommended.
Neutralization[1]: 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. 502404).
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. Meager, A. 1987. *Lymphokines and Interferons:A Practical Approach*. IRL Press Ltd, Oxford, p. 105.
2. Goodier, M., *et al.* 2000. *J. Immunol.* 165:139.

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 NIB42 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
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Recombinant Human IFN-γ	rh IFN-γ	BA, ELISA

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