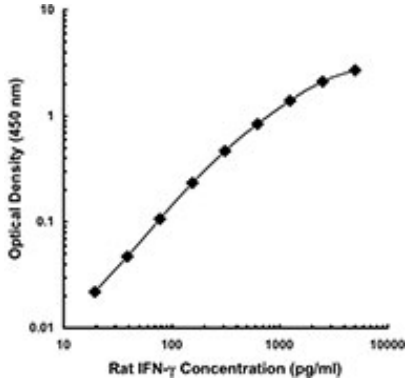
BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-rat IFN-γ

Catalog # / Size: 507808 / 500 µg
Clone: DB-1
Isotype: Mouse IgG1, κ
Immunogen: Recombinant rat IFN-γ
Reactivity: Mouse, Rat
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*
Neut, ICFC, IHC, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA analysis. For ELISA capture applications, the suggested use of this reagent is 1-4 ug/ml. For use as an ELISPOT capture antibody, the range of 2-6 ug/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. The Purified DB-1 has been tested by blocking fluorochrome conjugated DB-1 for intracellular cytokine staining. In order to obtain complete blocking results, a saturated amount of Purified antibody (≤ 5.0 ug/million cells) should be used for incubation with target cells, prior to staining with fluorochrome conjugated antibody. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA Capture[1]:** The Purified DB-1 antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated poly5109 antibody (Cat. No. 510901) as the detecting antibody and recombinant IFN-γ (Cat. No. 565701) as the standard.
Flow Cytometry[5]: The fluorochrome-labeled DB-1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γ-producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.
Neutralization[3,4]: The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of rat IFN-γ bioactivity *in vivo* and *in vitro* (Cat. No. 507808).
Additional reported applications (for the relevant formats) include: Western blotting[1], and immunohistochemistry [2] of paraformaldehyde-fixed, saponin-treated frozen tissue sections.

Application References:
1. Van der Meide P, *et al.* 1989. *Lymphokine Res.* 8:439.
2. Nennesmo I, *et al.* 1989. *Brain Res.* 504:306.
3. Rayner D, *et al.* 1987. *Scand. J. Immunol.* 25:621.
4. Hartung H, *et al.* 1990. *Ann Neurol.* 27:247.
5. Bernard I, *et al.* 1998. *Eur. Cytokine Net.* 9:613.

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 DB-1 antibody reacts with rat and mouse interferon-gamma (IFN-γ). The DB-1 antibody can neutralize the bioactivity of natural or recombinant IFN-γ. The DB-1 antibody has been well characterized for ELISA, intracellular staining, Western blotting, IHC, and neutralization (*in vitro* and *in vivo*).

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

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587