

Product Data Sheet

PE anti-rat IFN- γ

Catalog # / Size: 507806 / 100 tests

Clone: DB-1

Isotype: Mouse IgG1, κ

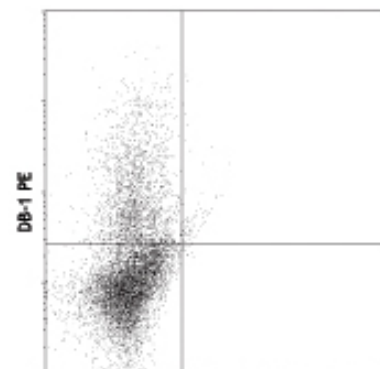
Immunogen: Recombinant rat IFN- γ

Reactivity: Mouse, Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



PMA/Ionomycin stimulated Lou rat splenocytes were stained with DB-1 PE.

Applications:

Applications: ICFC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: **ELISA Capture¹ or ELISPOT Capture²:** The purified DB-1 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT 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. The LEAF™ purified antibody is suggested for ELISPOT capture.

Flow Cytometry⁵: 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/ μ g, Azide-Free, 0.2 μ m 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 blotting¹, and immunohistochemistry² 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 ELISPOT, 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
 Cell Staining Buffer
 Fixation Buffer
 Permeabilization Wash Buffer (10X)
 Brefeldin A Solution (1,000X)
 Monensin Solution (1,000X)
 PE Mouse IgG1, κ Isotype Ctrl (FC)

Clone

MOPC-21

Application

FC, ICC, ICFC
 ICC, ICFC
 ICC, ICFC, IHC
 ICFC
 ICFC
 FC



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