SONY

# Product Data Sheet

## Purified anti-rat IFN-γ

**Catalog # / Size:** 3139010 / 500 µg
3139005 / 50 µg

**Clone:** DB-1

**Isotype:** Mouse IgG1, κ

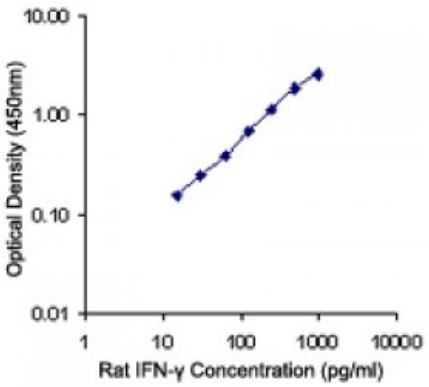
**Immunogen:** Recombinant rat IFN-γ

**Reactivity:** Mouse,Rat

**Preparation:** The antibody was purified by affinity chromatography.

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

**Concentration:** 0.5




## Applications:

**Applications:** Other

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, the suggested use of this reagent is 1-4 ug/ml. 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 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 poly5188 antibody (Cat. No. 518803) 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 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.*