

## Alexa Fluor® 647 anti-rat IFN- $\gamma$

**Catalog # / Size:** 507809 / 25 tests  
507810 / 100 tests

**Clone:** DB-1

**Isotype:** Mouse IgG1,  $\kappa$

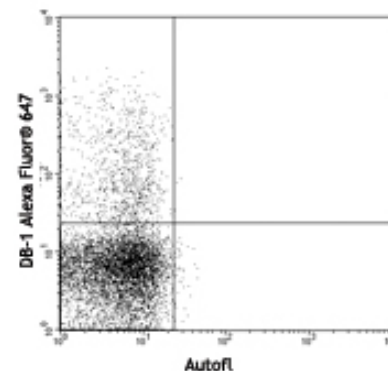
**Immunogen:** Recombinant rat IFN- $\gamma$

**Reactivity:** Mouse, Rat

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

**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 (6 hours) stained with DB-1 Alexa Fluor® 647

## Applications:

**Applications:** ICFC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5  $\mu$ l per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

\*\* Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**Application Notes:** **ELISA Capture<sup>1</sup> or ELISPOT Capture<sup>2</sup>:** 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- $\gamma$  (Cat. No. 565701) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture.

**Flow Cytometry<sup>5</sup>:** The fluorochrome-labeled DB-1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN- $\gamma$ -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit [www.biolegend.com](http://www.biolegend.com) and click on the support section.

**Neutralization<sup>3,4</sup>:** The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for neutralization of rat IFN- $\gamma$  bioactivity *in vivo* and *in vitro* (Cat. No. 507808).

**Additional reported applications (for the relevant formats) include:** Western blotting<sup>1</sup>, and immunohistochemistry<sup>2</sup> 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- $\gamma$  is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally characterized based on anti-viral activities, IFN- $\gamma$  also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN- $\gamma$  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- $\gamma$ ). The DB-1 antibody can neutralize the bioactivity of natural or recombinant IFN- $\gamma$ . 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  
Alexa Fluor® 647 Mouse IgG1,  $\kappa$  Isotype Ctrl (FC)

**Clone**  
MOPC-21

**Application**  
FC, ICC, ICFC  
FC, IF



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