

Brilliant Violet 650™ anti-human IFN-γ

Catalog # / Size: 3112690 / 100 tests
3112685 / 25 tests

Clone: 4S.B3

Isotype: Mouse IgG1, κ

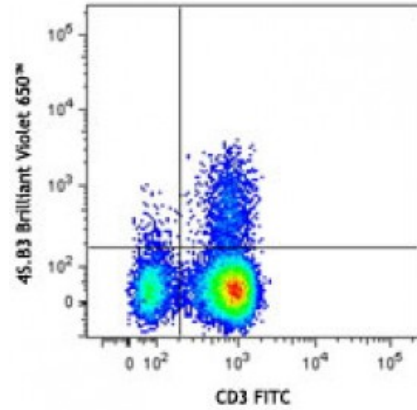
Immunogen: Partially purified, native human IFN-γ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

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

Concentration: Lot-specific



PMA+ionomycin-stimulated (6 hours) human peripheral blood lymphocytes were surface stained with CD3 FITC, and then intracellularly stained with IFN-γ (clone 4S.B3) Brilliant Violet 650™.

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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Application Notes: **ELISA or ELISPOT Detection⁵:** The biotinylated 4S.B3 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified NIB42 antibody (Cat. No. 502402/502404) or purified MD-1 antibody (Cat. No. 507502/507513) as the capture antibody.

Flow Cytometry^{3,4,6-8}: The fluorochrome-labeled 4S.B3 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γ -producing cells within mixed cell populations.

Additional reported applications (for the relevant formats) include: neutralization^{1,2}, Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated tissue sections, and

immunocytochemistry. The 4S.B3 antibody can neutralize the bioactivity of natural or recombinant IFN- γ .

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, *et al.* 1984. *J. Interferon Res.* 4:619. (Neut)
 2. Meager A, 1987. *Lymphokines and Interferons: A Practical Approach.* IRL Press Ltd, Oxford, p. 105. (Neut)
 3. Sester M, *et al.* 2002. *J. Virol.* 76:3748. (ICFC)
 4. Infante-Duarte C, *et al.* 2000 *J. Immunol.* 165:6107. (ICFC)
 5. Goodier M, *et al.* 2000. *J. Immunol.* 165:139. (ELISA)
 6. Chen H, *et al.* 2005. *J. Immunol.* 175:591. (ICFC)
 7. Smeltz RB, 2007. *J. Immunol.* 178:4786. (ICFC)
 8. Iwamoto S, *et al.* 2007. *J. Immunol.* 179:1449. (ICFC) [PubMed](#)
 9. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (ICFC)
 10. Payne TL, *et al.* 2014. *J Virol.* 88:9514. [PubMed](#)
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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.

- 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