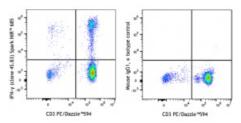
## Spark NIR<sup>™</sup> 685 anti-human IFN-γ

Catalog # / Size:	3112755 / 25 tests 3112760 / 100 tests
Clone:	4S.B3
lsotype:	Mouse IgG1, к
lmmunogen:	Partially purified, native human IFN- Y
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Concentration:	Lot-specific



PMA+ ionomycin stimulated (6 hours) human peripheral blood lymphocytes (in the presence of monensin) were fixed, permeabilized then stained with CD3 PE/Dazzle<sup>™</sup> 594 and IFN-γ (clone 4S.B3) Spark NIR<sup>™</sup> 685 (left) or mouse IgG1, κ Spark NIR<sup>™</sup> 685 isotype control (right).

## **Applications:**

Applications: Intracellular Staining for Flow Cytometry Recommended Each lot of this antibody is quality control tested by intracellular Usage: immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. \* Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm. Application ELISA or ELISPOT Detection<sup>5</sup>: The biotinylated 4S.B3 antibody is useful Notes: as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified NIB42 antibody as the capture antibody. Flow Cytometry<sup>3,4,6-8</sup>: The fluorochrome-labeled 4S.B3 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-? -producing cells within mixed cell populations. Additional reported applications (for the relevant formats) include: neutralization<sup>1,2</sup>, 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-?.

Application	<ol> <li>Meager A, et al. 1984. J. Interferon Res. 4:619. (Neut)</li> <li>Meager A, 1987. Lymphokines and Interferons:A Practical Approach. IRL</li></ol>
References:	Press Ltd, Oxford, p. 105. (Neut) <li>Sester M, et al. 2002. J. Virol. 76:3748. (ICFC)</li> <li>Infante-Duarte C, et al. 2000 J. Immunol. 165:6107. (ICFC)</li> <li>Goodier M, et al. 2000. J. Immunol. 165:139. (ELISA)</li> <li>Chen H, et al. 2005. J. Immunol. 175:591. (ICFC)</li> <li>Smeltz RB, 2007. J. Immunol. 178:4786. (ICFC)</li> <li>Iwamoto S, et al. 2007. J. Immunol. 179:1449. (ICFC)</li> <li>Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (ICFC)</li>
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.
Antigen	<ol> <li>Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press,</li></ol>
References:	San Diego. <li>De Maeyer E, <i>et al.</i> 1992. <i>Curr. Opin. Immunol.</i> 4:321.</li> <li>Farrar M, <i>et al.</i> 1993. <i>Annu. Rev. Immunol.</i> 11:571.</li> <li>Gray P, <i>et al.</i> 1987. <i>Lymphokines</i> 13:151.</li>