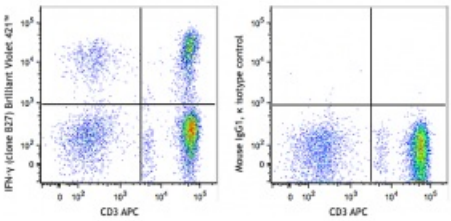
SONY

Product Data Sheet

Brilliant Violet 421™ anti-human IFN-γ

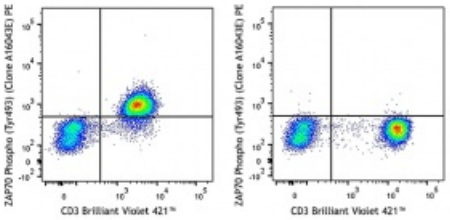
Catalog # / Size:	3132690 / 100 tests 3132685 / 25 tests
Clone:	B27
Isotype:	Mouse IgG1, κ
Immunogen:	E. coli-expressed recombinant human IFN-γ
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ 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 (4 hours) human peripheral blood lymphocytes were fixed and permeabilized then intracellularly stained with CD3 APC (clone UCHT1) and either IFN-γ (clone B27) Brilliant Violet 421™ (left) or mouse IgG1, κ Brilliant Violet 421™ isotype control (right).

Applications:

Applications:	Intracellular Flow Cytometry



Human peripheral blood lymphocytes were stimulated by CD3 and CD28 cross-linking (left) or unstimulated (right), fixed with Fixation Buffer (Cat. No. 2704005), permiabilized with Intracellular Staining Permeabilization Wash Buffer (Cat. No. 2705010), then intracellularly stained with CD3 Brilliant Violet 421™ and anti-ZAP70 Phospho (Tyr 493) (clone A16043E) PE. For CD3 and CD28 cross-linking, cells were incubated with anti-CD3 and anti-CD28 on ice for 15 minutes followed by Purified anti-Mouse Ig on ice for 15 minutes, and

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

incubated at 37°C for 2 minutes.

Application Notes:

Flow Cytometry[2]: The fluorochrome-labeled B27 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γ -producing cells within mixed cell populations.

Application References:

1. Favre C, *et al.* 1989. *Molec. Immunol.* 26:17. (Neut)
2. Kaur A, *et al.* 2002. J Virol. 76:3646.
3. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. (Neut)
4. Andersson U, *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
5. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)
6. Acosta-Rodriguez EV, *et al.* 2007. *Nat. Immunol*. 9:942-9. (Neut)
7. Gangur V, *et al*. 1998. *FASEB J.* 12:705-13. (Neut)

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 B27 antibody reacts with the human interferon-γ. The B27 antibody can neutralize the bioactivity of natural or recombinant IFN-γ.

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.