

Brilliant Violet 421™ anti-human IFN-γ Antibody

Catalog# / Size	383405 / 25 tests 383406 / 100 tests
Clone	W19227C
Regulatory Status	RUO
Other Names	Interferon-γ, Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF), IFN-g, IFN-gamma
Isotype	Rat IgG2b, λ
Description	Human interferon-gamma (IFN-γ, type II interferon) is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells in response to antigens and other cytokines. Originally characterized based on anti-viral activities. IFN-γ also exerts tumor anti-proliferative, immunoregulatory, and proinflammatory activities. IFN-γ can upregulate MHC class I and II, and macrophage activation. This human IFN-γ antibody does not show cross-reactivity with mouse.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool).
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
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. It is recommended that the reagent be titrated for optimal performance for each application. 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. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)

Antigen Details

Structure	Cytokine; dimer; 20-25 kD (Mammalian)
Distribution	CD8 ⁺ and CD4 ⁺ T cells, NK cells
Function	Upregulated by IL-2, FGF-basic, EGF; downregulated by vitamin D3 or DMN; labile at pH 2
Interaction	T cells, B cells, macrophages, NK cells, endothelial cells, fibroblasts
Ligand/Receptor	IFN-γRα (CDw119) dimerized with IFN-γRβ (AF-1)
Cell Type	Tregs
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego. 2. De Maeyer E, <i>et al.</i> 1992. <i>Curr Opin Immunol.</i> 4:321-6. 3. Farrar M, <i>et al.</i> 1993. <i>Annu Rev Immunol.</i> 11:571-611. 4. Gray P, <i>et al.</i> 1987. <i>Lymphokines.</i> 13:151.
Gene ID	3458

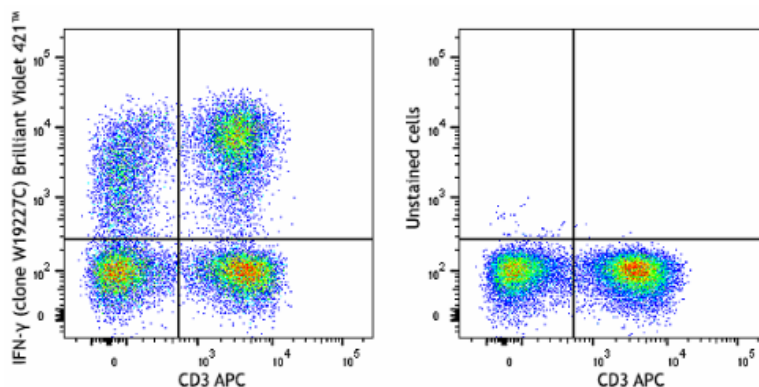
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human IFN-γ, Brilliant Violet 421™ anti-human IFN-γ Antibody, Brilliant Violet 605™ anti-human IFN-γ Antibody, PE/Cyanine7 anti-human IFN-γ

Product Data



PMA+ionomycin (4 hours) stimulated human PBMCs were surface stained with anti-human CD3 (clone UCHT1) APC. Cells were then fixed, permeabilized, and intracellularly stained with anti-human IFN-γ (clone W19227C) Brilliant Violet 421™ (left), or surface stained with anti-human CD3 (clone UCHT1) APC only (right).

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