

PE/Cyanine7 anti-human IFN- γ Antibody

Catalog# / Size	383407 / 25 tests 383408 / 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 PE/Cyanine7 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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- γ R α (CDw119) dimerized with IFN- γ R β (AF-1)

Cell Type	Tregs
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines

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.* 4:321-6.
3. Farrar M, *et al.* 1993. *Annu Rev Immunol.* 11:571-611.
4. Gray P, *et al.* 1987. *Lymphokines.* 13:151.

Gene ID [3458](#)

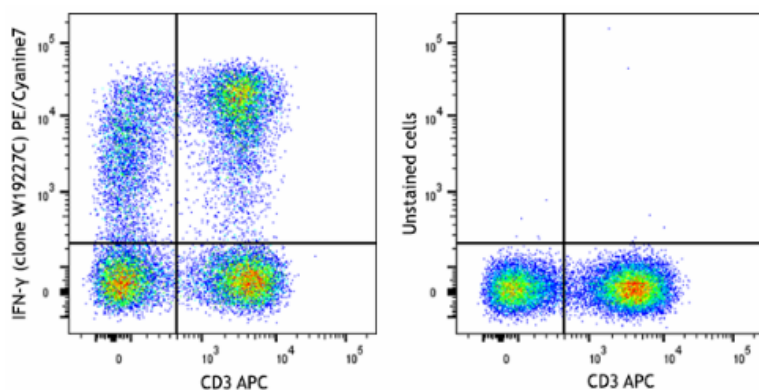
Related Protocols

- [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) PE/Cyanine7 (left), or left surface stained with anti-human CD3 (clone UCHT1) APC only (right).

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