

Spark PLUS V450™ anti-mouse IFN-γ Antibody

Catalog# / Size	163515 / 25 µg 163516 / 100 µg
Clone	W18272D
Regulatory Status	RUO
Other Names	Interferon-γ, Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF)
Isotype	Rat IgG2b, κ
Description	IFN-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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS V450™ under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS V450™ has a maximum excitation of 405 nm and a maximum emission of 452 nm.
Excitation Laser	Violet Laser (405 nm)

Antigen Details

Structure	Cytokine; dimer; 40-80 kD (Mammalian)
Distribution	Tregs
Function	Upregulated by IL-2, FGF-basic, EGF; downregulated by 1-α-25-Dihydroxy vitamin D3, dexamethasone
Ligand/Receptor	Receptors: IFN-γRα (CDw119) dimerized with IFN-γRβ (AF-1)
Antigen References	1. Zaidi et al. 2011, Clin Cancer Res, 17(19):6118-24 2. Castro et al. 2018, Front Immunol, 9:847 3. Alspach et al. 2019, Cold Spring Harb Perspect Biol, 11(3):a028480

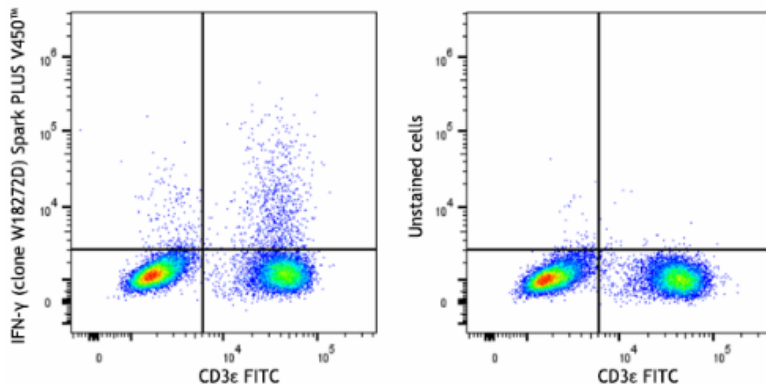
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse IFN- γ Antibody, APC/Fire™ 750 anti-mouse IFN- γ , FITC anti-mouse IFN- γ , PE/Cyanine7 anti-mouse IFN- γ , APC anti-mouse IFN- γ , PerCP/Cyanine5.5 anti-mouse IFN- γ , Spark PLUS V450™ anti-mouse IFN- γ

Product Data



C57BL/6 mouse splenocytes were treated with Cell Activation Cocktail (with Brefeldin A) (Cat. Nos. 423303 and 423304) for 4 hours and then fixed with Fixation Buffer (Cat. No. 420801) and permeabilized using Permeabilization Wash Buffer (Cat. No. 421002). Cells were then stained with anti-mouse CD3 ϵ (clone 145-2C11) FITC and anti-mouse IFN- γ (clone W18272D) Spark PLUS V450™ (right) or stained with anti-mouse CD3 ϵ (clone 145-2C11) FITC only (right).

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