

APC anti-mouse IL-21 Antibody

Catalog# / Size	122203 / 25 µg 122204 / 100 µg
Clone	S20017B
Regulatory Status	RUO
Other Names	Interleukin-21
Isotype	Rat IgG1, κ
Description	Interleukin 21 (IL-21) is a potent immunomodulatory cytokine primarily produced by NKT cells and CD4 ⁺ T cells, particularly the inflammatory Th17 subset. It exerts pleiotropic effects on both innate and adaptive immune responses. These include positive effects such as enhancing proliferation of NK cells and cytotoxic T cells, and inhibitory effects on the antigen-presenting function of dendritic cells. IL-21 also has proapoptotic effects on B cells and NK cells. Recent studies have shown that IL-21 functions as an autocrine cytokine, strongly inducing Th17 differentiation and suppressing Foxp3 expression, making it a potential therapeutic target for treating cancer and inflammatory diseases.

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 APC 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.
Excitation Laser	Red Laser (633 nm)
RRID	AB_3683149 (BioLegend Cat. No. 122203) AB_3683149 (BioLegend Cat. No. 122204)

Antigen Details

Structure	Interleukin
Distribution	CD4 activated T cells, Th17 cells, Th2 cells
Function	Immunomodulation
Ligand/Receptor	IL-21R
Cell Type	NKT cells, T cells, Tfh, Th17, Th2

Biology Area Cell Biology, Immunology

Molecular Family Cytokines/Chemokines

Antigen References
1. Parrish-Novak J, *et al.* 2000. *Nature*. 408:57-63.
2. Mehta DS, *et al.* 2004. *Immunol Rev.* 202:84-95.

Gene ID [60505](#)

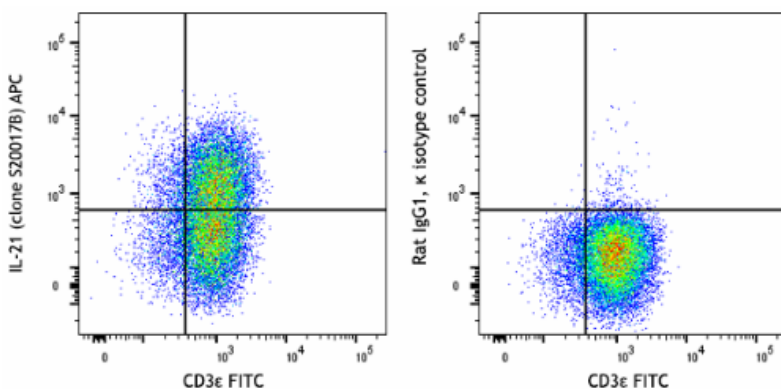
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse IL-21, APC anti-mouse IL-21, PE/Cyanine7 anti-mouse IL-21, PE anti-mouse IL-21 Antibody

Product Data



PMA+ ionomycin-stimulated (4 hours, in the presence of brefeldin A) Th17-polarized C57BL/6 mouse CD4 T cells were stained with anti-mouse CD3ε (clone 145-2C11) FITC. Cells were fixed, permeabilized, and intracellularly stained with anti-mouse IL-21 (clone S20017B) APC (left) or rat IgG1, κ APC isotype control (right).

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