

PE/Cyanine7 anti-mouse IL-21 Antibody

Catalog# / Size	122205 / 25 µg 122206 / 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 PE/Cyanine7 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 ≤ 1.0 µg per million cells in 100 µL volume. 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)
RRID	AB_3698904 (BioLegend Cat. No. 122205) AB_3698904 (BioLegend Cat. No. 122206)

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	<ol style="list-style-type: none"> 1. Parrish-Novak J, <i>et al.</i> 2000. <i>Nature</i>. 408:57-63. 2. Mehta DS, <i>et al.</i> 2004. <i>Immunol Rev.</i> 202:84-95.
Gene ID	60505

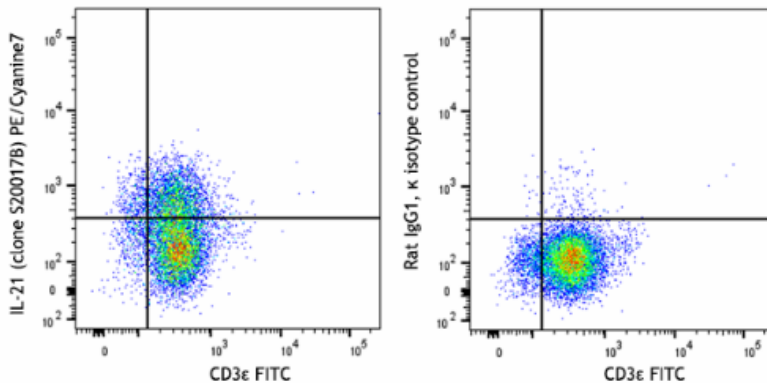
Related Protocols

- [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 then fixed, permeabilized, and intracellularly stained with anti-mouse IL-21 (clone S20017B) PE/Cyanine7 (left) or rat IgG1, κ PE/Cyanine7 isotype control (right).

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