

PE/Dazzle™ 594 anti-human IL-2 Antibody

Catalog# / Size	310611 / 25 tests 310612 / 100 tests
Clone	W19046A
Regulatory Status	RUO
Other Names	Interleukin-2, T cell growth factor (TCGF); Eosinophil differentiation factor (EDF); Killer cell helper factor (KHF); Macrophage-activating factor for cytotoxicity I (MAF-C I); Thymocyte differentiation factor (TDF)
Isotype	Rat IgG2b, κ
Description	IL-2 is a potent lymphoid cell growth factor which exerts its biological activity primarily on T cells, promoting proliferation and maturation. Additionally, IL-2 has been found to stimulate growth and differentiation of B cells, NK cells, LAK cells, monocytes, and oligodendrocytes.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant human IL-2
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/Dazzle™ 594 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 flow cytometry using our Cyto-Fast™ Fix/Perm Buffer Set. For flow cytometric staining, the suggested use of this reagent is 5 μ L per 10^6 cells in 100 μ L volume. It is highly recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3683321 (BioLegend Cat. No. 310611) AB_3683321 (BioLegend Cat. No. 310612)

Antigen Details

Structure	Cytokine; 15.4 kD (Mammalian)
Distribution	T cells
Function	Upregulated by NFAT; downregulated by TCF-8 and CIF (colostrums inhibitory factor)

Ligand/Receptor	High affinity heterotrimer of IL-2R α / β / γ , intermediate affinity homodimer IL-2R α (CD25; p55; Tac) and heterodimer IL-2R β (CD122)/ γ ; γ -subunit (CD132) in common with IL-4R, IL-7R, IL-13R, IL-15R
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego. 2. Taniguchi T, <i>et al.</i> 1993. <i>Cell</i> 73:5. 3. Nistico G. 1993. <i>Prog. Neurobiol.</i> 40:463. 4. Waldmann T, <i>et al.</i> 1993. <i>Ann. NY Acad. Sci.</i> 685:603.
Gene ID	3558

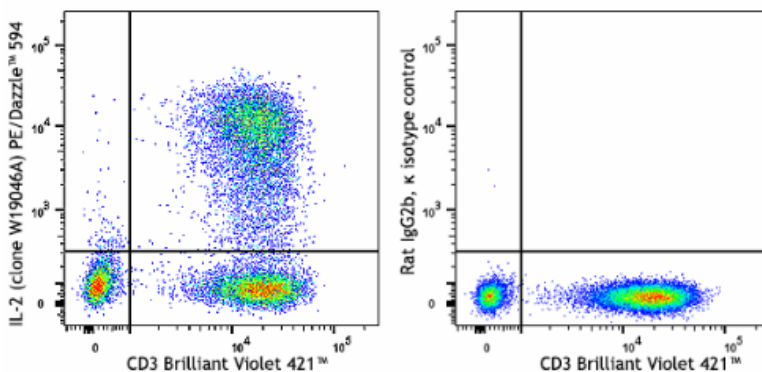
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human IL-2, Spark Violet™ 423 anti-human IL-2, APC anti-human IL-2, FITC anti-human IL-2, PE anti-human IL-2 Antibody, PE/Dazzle™ 594 anti-human IL-2 Antibody, PE/Cyanine7 anti-human IL-2 Antibody

Product Data



Human peripheral blood lymphocytes were stimulated with Cell Activation Cocktail (with Brefeldin A) (Cat. No. 423303) for 6 hours and surface stained with anti-human CD3 (clone UCHT1) Brilliant Violet 421™. Cells were then treated with Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803) and intracellularly stained with anti-human IL-2 (clone W19046A) PE/Dazzle™ 594 (left) or rat IgG2b, κ PE/Dazzle™ 594 isotype control (right).

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