

## PE anti-human IL-2 Antibody

<b>Catalog# / Size</b>	310609 / 25 tests 310610 / 100 tests
<b>Clone</b>	W19046A
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	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)
<b>Isotype</b>	Rat IgG2b, $\kappa$
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Recombinant human IL-2
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	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 $\mu$ L per $10^6$ cells in 100 $\mu$ L volume. It is highly recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>RRID</b>	AB_3683320 (BioLegend Cat. No. 310609) AB_3683320 (BioLegend Cat. No. 310610)

### Antigen Details

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<b>Structure</b>	Cytokine; 15.4 kD (Mammalian)
<b>Distribution</b>	T cells
<b>Function</b>	Upregulated by NFAT; downregulated by TCF-8 and CIF (colostrums inhibitory factor)
<b>Ligand/Receptor</b>	High affinity heterotrimer of IL-2R $\alpha$ / $\beta$ / $\gamma$ , intermediate affinity homodimer IL-2R $\alpha$ (CD25; p55; Tac) and heterodimer IL-2R $\beta$ (CD122)/ $\gamma$ ; $\gamma$ -subunit (CD132) in common with IL-4R, IL-7R, IL-13R, IL-

**Molecular Family**

Cytokines/Chemokines

**Antigen References**

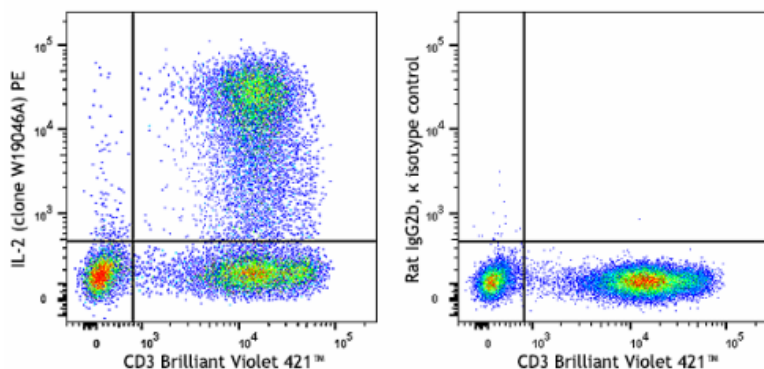
1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Taniguchi T, *et al.* 1993. *Cell* 73:5.
3. Nistico G. 1993. *Prog. Neurobiol.* 40:463.
4. Waldmann T, *et al.* 1993. *Ann. NY Acad. Sci.* 685:603.

**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 (left) or rat IgG2b, κ PE isotype control (right).

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