

PE/Dazzle™ 594 anti-mouse IL-13 Antibody

Catalog# / Size	159411 / 25 µg 159412 / 100 µg
Clone	W17010B
Regulatory Status	RUO
Other Names	Interleukin 13
Isotype	Rat IgG1, κ
Description	Mouse IL-13 was initially cloned from cDNA libraries of activated T cells and was designated as P600. IL-13 is an immunoregulatory cytokine secreted predominantly by activated Th2 cells, and it is a key mediator in the pathogenesis of allergic inflammation. IL-13 shares many functional properties with IL-4, and they share a common receptor subunit, the alpha subunit of the IL-4 receptor (IL-4Ra). IL-13 mediates its effects by interacting with a complex receptor system comprised of IL-4Ra and two IL-13 binding proteins, IL-13Ralpha1 and IL-13Ralpha2. Ligation of the IL-13 receptor complex results in signaling via the insulin receptor substrate (IRS)-1 and 2 and STAT-6 pathways. IL-13 has been implicated in inflammatory responses, such as airway hypersensitivity and mucus hypersecretion, inflammatory bowel disease, and parasitic nematode expulsion.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse IL-13
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 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 ≤ 0.125 µg per million cells in 100 µL volume. It is 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_3675010 (BioLegend Cat. No. 159411) AB_3675010 (BioLegend Cat. No. 159412)

Antigen Details

Structure	Cytokine
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Distribution	Th2 cells, basophils, mast cells, activated eosinophils and NK cells
Function	IL-13 modulates mouse monocytes/macrophages and B cells. IL-13 induces an increase of MHC class II expression in mouse monocytes/macrophages, and direct inhibition of inflammatory cytokines such as TNF- α and IL-1 β .
Ligand/Receptor	IL-4R α , IL-13R α 1, and IL-13R α 2
Cell Type	Basophils, Eosinophils, Mast cells, NK cells, Th2
Biology Area	Immunology
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Brown KD, <i>et al.</i> 1989. <i>J Immunol.</i> 142:679-87. 2. McKenzie AN, <i>et al.</i> 1993. <i>Proc Natl Acad Sci USA.</i> 90:3735-9. 3. McKenzie GJ, <i>et al.</i> 1999. <i>J Exp Med.</i> 189:1565-72.
Gene ID	16163

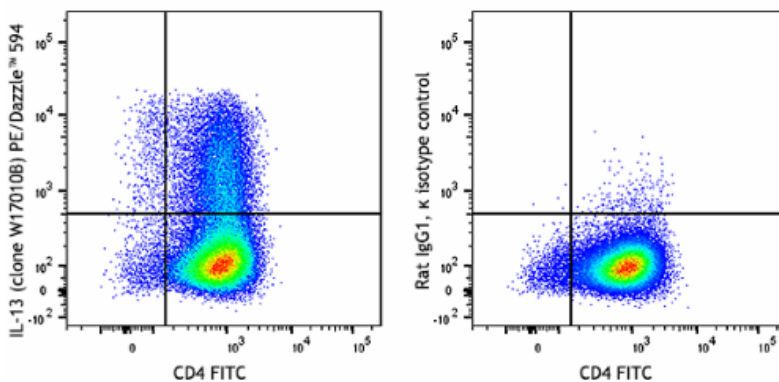
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse IL-13, APC anti-mouse IL-13, PE/Cyanine7 anti-mouse IL-13, PerCP/Cyanine5.5 anti-mouse IL-13, PE/Dazzle™ 594 anti-mouse IL-13

Product Data



Th2-polarized BALB/c CD4-positive T cells were stimulated with Cell Activation Cocktail (with Brefeldin A) for 4 hours and surface-stained with anti-mouse CD4 (clone GK1.5) FITC. Cells were then fixed, permeabilized, and intracellularly stained with anti-mouse IL-13 (clone W17010B) PE/Dazzle™ 594 (left) or rat IgG1, κ PE/Dazzle™ 594 isotype control (right).

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