

PE/Cyanine7 anti-human IL-1RL1 (ST2) Antibody

Catalog# / Size	379409 / 25 tests 379410 / 100 tests
Clone	A16008J
Regulatory Status	RUO
Other Names	IL-33R, ST2, IL-1RL1
Isotype	Mouse IgG2b, κ
Description	IL1RL1 is a member of the Toll-like receptor superfamily the receptor for Interleukin-33. It is a 556 amino acid single-pass type I membrane protein. ST2 exists in two forms as splice variants: a soluble form, which acts as a decoy receptor and sequesters free IL-33, and a membrane-bound form (ST2), which activates the MyD88/NF- κ B signaling pathway. Signaling through IL1RL1 drives cytokine production in mast cells, basophils, eosinophils, invariant NKT and NK cells, Th2 lymphocytes, and type 2 innate immune cells. IL-33 signaling is required for maintaining the suppressive function of regulatory T cells.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human IL-1RL1, AA19-328
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/Cyanine7 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	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. 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_3716974 (BioLegend Cat. No. 379409) AB_3716974 (BioLegend Cat. No. 379410)

Antigen Details

Structure	Single-pass type I membrane protein
Distribution	Th2 lymphocytes, mast cells, eosinophils, basophils, smooth muscle cells, endothelial cells

Function	Cytokine signaling
Interaction	Signaling requires association of the coreceptor IL1RAP. Recruits MYD88, IRAK1, IRAK4, and TRAF6.
Ligand/Receptor	IL-33
Cell Type	Basophils, Endothelial cells, Eosinophils, Lymphocytes, NK cells, Th2, Tregs
Biology Area	Immunology
Molecular Family	Cytokine/Chemokine Receptors
Antigen References	1. Schmitz J, <i>et al.</i> 2005. <i>Immunity</i>. 23: 479-490. 2. Brint E, <i>et al.</i> 2004. <i>Nat Immun.</i> 5:373-379. 3. Griesenauer B, <i>et al.</i> 2017. <i>Front Immunol.</i> 8:475.
Gene ID	9173

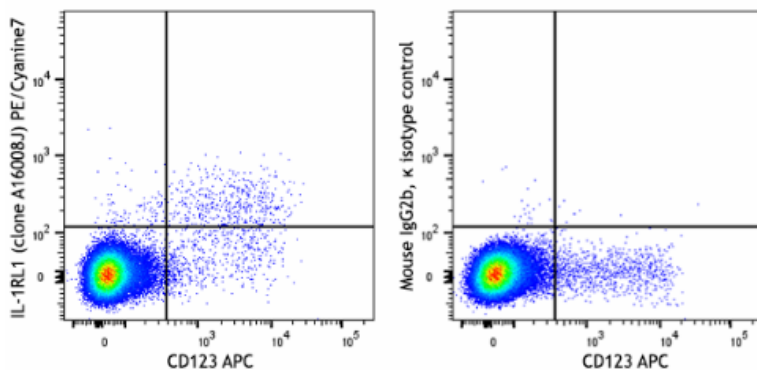
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE/Dazzle™ 594 anti-human IL-1RL1 (ST2), Purified anti-human IL-1RL1 (ST2), PE anti-human IL-1RL1 (ST2), PE/Cyanine7 anti-human IL-1RL1 (ST2), APC anti-human IL-1RL1 (ST2), Brilliant Violet 421™ anti-human IL-1RL1 (ST2)

Product Data



Human peripheral blood mononuclear cells were stimulated with IL-3 overnight and stained with anti-human HLA-DR (clone L243) FITC, anti-human CD123 (clone S18016C) APC and anti-human IL-1RL1 (ST2) (clone A16008J) PE/Cyanine7 (left) or mouse IgG2b, κ PE/Cyanine7 isotype control (right). Data shown was gated on the HLA-DR negative population.

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