

PE/Cyanine5 anti-human CD125 (IL-5R α) Antibody

Catalog# / Size	384715 / 25 tests 384716 / 100 tests
Clone	S20015E
Regulatory Status	RUO
Other Names	IL5RA, IL5R, CDw125, HSIL5R3
Isotype	Mouse IgG1, κ
Description	CD125, also known as IL5 receptor α -chain, is a 60 kD type I transmembrane protein that binds IL-5 and associates in a heterodimer with the signal-transducing β subunit CD131 to form the IL-5 receptor. The affinity of CD125 for IL-5 is increased when is associated with CD131. The cytoplasmic region of CD125 activates the JAK2/STAT5 pathway and the kinase Btk. CD125 is expressed by eosinophils, basophils, mast cells, B1 cells and a subset of resting B2 cells and have a central role in the differentiation, activation and survival of these cells. Due to the restricted expression of this molecule, it is considered a potential therapeutic target for allergic inflammatory conditions.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Mouse IL-5R α transfected cells
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/Cyanine5 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)

Antigen Details

Structure	Type I transmembrane protein, 60 kD
Distribution	Eosinophils, basophils, mast cells, B1 cells, subset of resting B2 cells
Function	Role in eosinophils and basophils differentiation, activation and survival

Interaction	JAK2/STAT, Btk, SOX4
Ligand/Receptor	IL-5
Cell Type	B cells, Basophils, Eosinophils
Biology Area	Cell Biology, Cell Proliferation and Viability, Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors

Antigen References

1. Buchheit KM, *et al.* 2020. *J Allergy Clin Immunol.* 145:1574-1584.
2. Lin X, *et al.* 2020. *Inflammation.* 43:1797-1805.
3. Gorski SA, *et al.* 2019. *PLoS One.* 14:e0221113.
4. Varricchi G, *et al.* 2016. *Curr Opin Allergy Clin Immunol.* 16:186-200.
5. Beekman JM. *et al.* 2009. *Blood.* 114:3917-27.
6. Lei JT. *et al.* 2008. *J Leukoc Biol.* 84:499-509.

Gene ID [3568](#)

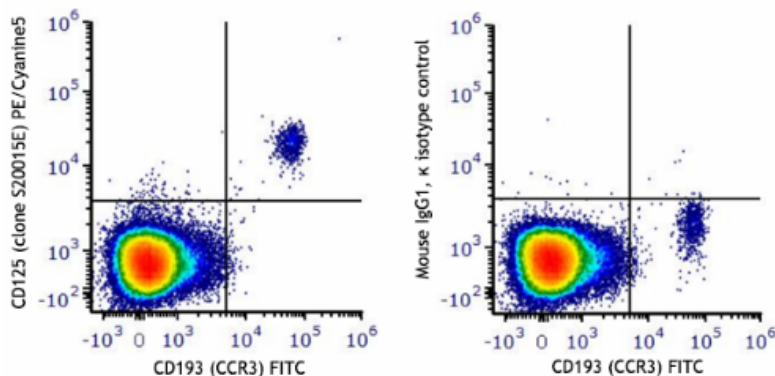
Related Protocols

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

Other Formats

Purified anti-human CD125 (IL-5R α), PE anti-human CD125 (IL-5R α), TotalSeq™-B1287 anti-human CD125 (IL-5R α), TotalSeq™-C1287 anti-human CD125 (IL-5R α), TotalSeq™-A1287 anti-human CD125 (IL-5R α) Antibody, Brilliant Violet 421™ anti-human CD125 (IL-5R α), PE/Cyanine5 anti-human CD125 (IL-5R α), Brilliant Violet 605™ anti-human CD125 (IL-5R α)

Product Data



Human peripheral blood was stained with anti-human CD193 (CCR3) (clone 5E8) FITC and anti-human CD125 (IL-5R α) (clone S20015E) PE/Cyanine5 (left) or mouse IgG1, κ PE/Cyanine5 isotype control (right). Data shown is gated on granulocytes.

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