

PE/Fire™ 700 anti-human CD25 Antibody

Catalog# / Size	385219 / 25 tests 385220 / 100 tests
Clone	S20019D
Regulatory Status	RUO
Other Names	interleukin-2 receptor alpha chain, interleukin-2 receptor, IL2RA, IL-2R α
Isotype	Mouse IgG1, κ
Description	CD25 is a 55 kD transmembrane protein also known as interleukin-2 receptor alpha chain. CD25 in combination with CD122 and CD132 form a high affinity IL-2 receptor that binds to IL-2, playing a crucial role in activation of JAK1/JAK3 and STAT5 signaling. It is expressed on activated T cells as well as on CD4+ T regulatory cells, some progenitor B-cells and activated monocytes.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CD25 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/Fire™ 700 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. * PE/Fire™ 700 has a maximum excitation of 565 nm and a maximum emission of 695 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone S20019D can block binding of clone M-A251 on target cells and is blocked by M-A251. Clone S20019D does not block binding of clones S20019C, BC96, and TÛ69 on target cells. Clone S20019D does not affect binding of IL-2 to the receptor. Clone S20019D shows comparable CD25 staining on 4% formaldehyde-fixed cells compared to unfixed.
RRID	AB_3675099 (BioLegend Cat. No. 385219) AB_3675099 (BioLegend Cat. No. 385220)

Antigen Details

Structure	55 kD transmembrane protein
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Distribution	Activated T cells, T regulatory cells, monocytes
Function	IL-2 receptor
Interaction	CD122, CD132
Ligand/Receptor	IL-2
Cell Type	Lymphocytes, T cells, Tregs
Biology Area	Cell Biology, Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors

Antigen References

- Schlossman S, et al. Eds. 1995. *Leucocyte Typing V*. Oxford University Press. New York.
- Waldmann T. 1991. *J Biol Chem*. 266:2681-4.
- Sakaguchi S, et al. 1995. *The Journal of Immunology*. 155:1151-64.

Gene ID [3559](#)

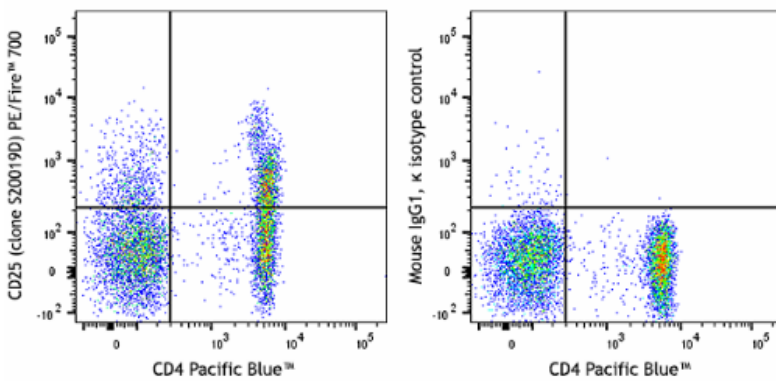
Related Protocols

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

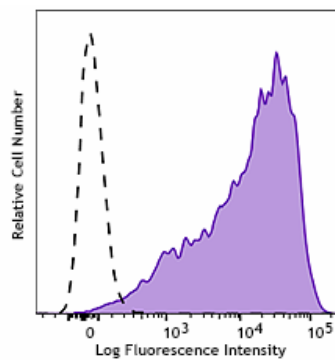
Other Formats

Purified anti-human CD25, PE/Cyanine7 anti-human CD25, APC anti-human CD25, Brilliant Violet 421™ anti-human CD25, PE anti-human CD25, Spark Red™ 718 anti-human CD25, Brilliant Violet 711™ anti-human CD25, APC/Fire™ 750 anti-human CD25, PE/Cyanine5 anti-human CD25, PE/Fire™ 700 anti-human CD25, PerCP/Cyanine5.5 anti-human CD25, Biotin anti-human CD25, PE/Dazzle™ 594 anti-human CD25

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD4 (clone RPA-T4) Pacific Blue™ and anti-human CD25 (clone S20019D) PE/Fire™ 700 (left) or mouse IgG1, κ PE/Fire™ 700 isotype control (right).



PHA-activated (3 days) human peripheral blood mononuclear cells were stained with anti-human CD25 (clone S20019D) PE/Fire™ 700 (filled histogram) or mouse IgG1, κ PE/Fire™ 700 isotype control (open histogram). Data shown was gated on the lymphocyte population.

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