

Brilliant Violet 785™ anti-human CD25 Antibody

Catalog# / Size	385229 / 25 tests 385230 / 100 tests
Clone	S20019D
Regulatory Status	RUO
Other Names	interleukin-2 receptor alpha chain, interleukin-2 receptor, IL2RA, IL-2Rα
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 Brilliant Violet 785™ 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 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 Tü69 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_3720549 (BioLegend Cat. No. 385229)
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Antigen Details

Structure	55 kD transmembrane protein
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](#)

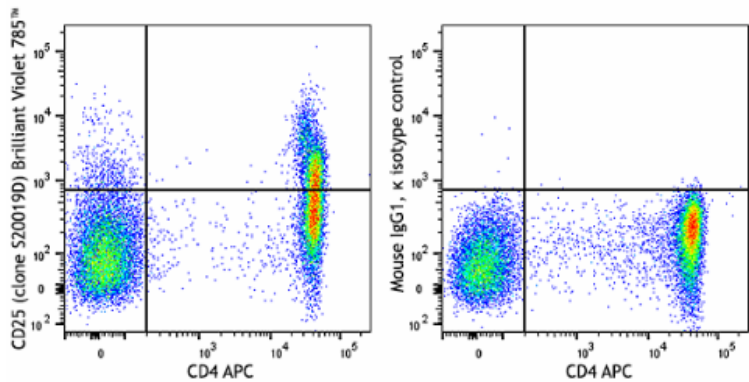
Related Protocols

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

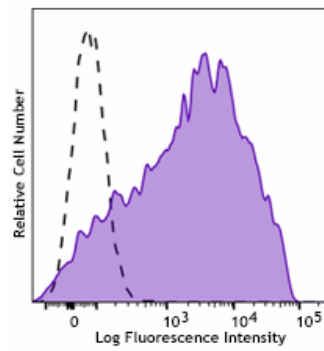
Other Formats

Purified anti-human CD25, PE/Cyanine7 anti-human CD25, APC anti-human CD25, PE anti-human CD25, Spark Red™ 718 anti-human CD25, Brilliant Violet 711™ anti-human CD25, APC/Fire™ 750 anti-human CD25, PE/Dazzle™ 594 anti-human CD25, PE/Cyanine5 anti-human CD25, PE/Fire™ 700 anti-human CD25, PerCP/Cyanine5.5 anti-human CD25, Biotin anti-human CD25, Brilliant Violet 421™ anti-human CD25, Brilliant Violet 785™ anti-human CD25 Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD4 (clone RPA-T4) APC and anti-human CD25 (clone S20019D) Brilliant Violet 785™ (left) or mouse IgG1, κ isotype control (right).



PHA-activated (3 days) human peripheral mononuclear cells were stained with anti-human CD25 (clone S20019D) Brilliant Violet 785™ (filled histogram) or mouse IgG1, κ Brilliant Violet 785™ isotype control (open histogram).

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