

Brilliant Violet 711™ anti-human CD25 Antibody

Catalog# / Size	385213 / 25 tests 385214 / 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 Brilliant Violet 711™ 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.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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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 T \ddot{U} 69 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_3683428 (BioLegend Cat. No. 385213)
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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](#)

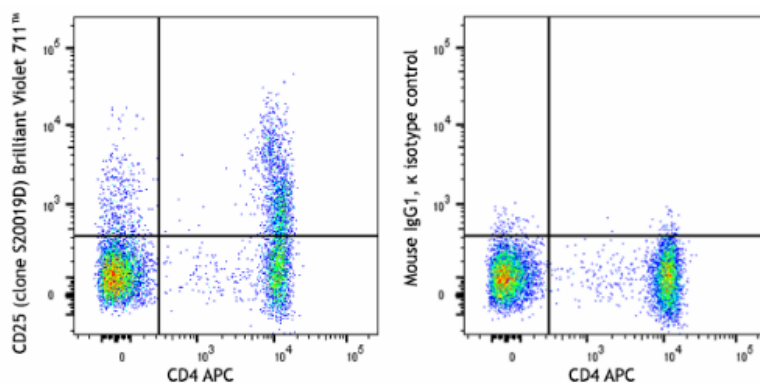
Related Protocols

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

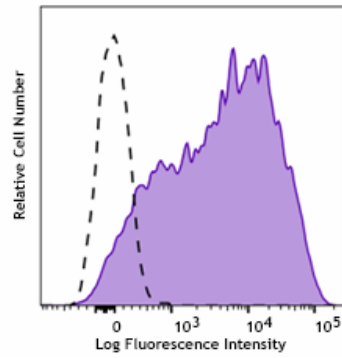
Other Formats

Purified anti-human CD25, PE/Cyanine7 anti-human CD25, APC anti-human CD25, 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) APC and anti-human CD25 (clone S20019D) Brilliant Violet 711™ (left) or mouse IgG1, κ Brilliant Violet 711™ isotype control (right).



PHA-activated (3 days) human peripheral blood mononuclear cells were stained with anti-human CD25 (clone S20019D) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ isotype control (open histogram). Data shown was gated on the lymphocyte population.

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