

Spark PLUS V475™ anti-human CD25 Antibody

Catalog# / Size	385611 / 25 tests 385612 / 100 tests
Clone	S20019C
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 Spark PLUS V475™ 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. * Spark PLUS V475™ has a maximum excitation of 404 nm and a maximum emission of 475 nm.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone S20019C can completely block binding of clone BC96 and clone TÛ69 on target cells and can be blocked by BC96 and by TÛ69. Clone S20019C does not block the binding of clone S20019D and clone M-A251 on target cells. Clone S20019C can block IL-2 binding to receptor. Clone S20019C shows comparable CD25 staining on 4% formaldehyde-fixed cells compared to unfixed.

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	<ol style="list-style-type: none"> Schlossman S, <i>et al.</i> Eds. 1995. <i>Leucocyte Typing V</i>. Oxford University Press. New York. Waldmann T. 1991. <i>J Biol. Chem.</i> 266:2681-4. Sakaguchi S, <i>et al.</i> 1995. <i>The Journal of Immunology.</i> 155:1151-64.
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Gene ID [3559](#)

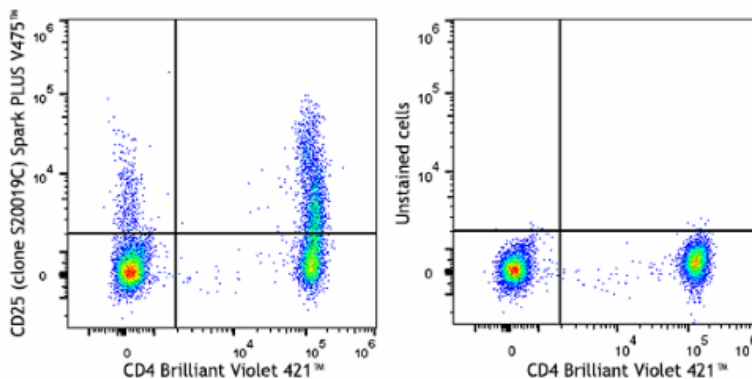
Related Protocols

- [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 PLUS UV395™ anti-human CD25, Spark Blue™ 574 anti-human CD25 (Flexi-Fluor™), Spark PLUS V475™ anti-human CD25 Antibody

Product Data



Human peripheral blood cells were stained with anti-human CD4 (clone RPA-T4) Brilliant Violet 421™ and anti-human CD25 (clone S20019C) Spark PLUS V475™ (left) or stained with anti-human CD4 (clone RPA-T4) Brilliant Violet 421™ only (right). Data shown are gated on the lymphocyte population.

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