

Spark PLUS B488™ anti-human CD25 Antibody

Catalog# / Size	302661 / 25 tests 302662 / 100 tests
Clone	BC96
Regulatory Status	RUO
Workshop	V T-072
Other Names	Low affinity IL-2R, IL-2R α chain, Tac, p55
Isotype	Mouse IgG1, κ
Description	CD25 is a 55 kD type I transmembrane glycoprotein also known as the low affinity IL-2 receptor α chain or Tac. It is expressed on progenitor lymphocytes, activated T and B cells, and activated monocytes/macrophages. CD25 is also expressed on a subset of non-stimulated CD4 ⁺ T cells termed T regulatory cells. CD25 associates with the IL-2 receptor β (CD122) and common γ chains (CD132) to form the high affinity IL-2R complex.

Product Details

Verified Reactivity	Human
Reported Reactivity	Baboon, Chimpanzee, Cynomolgus, Pigtailed Macaque, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
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 B488™ 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 B488™ has a maximum excitation of 499 nm and a maximum emission of 520 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications include: immunocytochemistry ³ .
Application References	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Kmiecik M, <i>et al.</i> 2009. <i>J. Transl. Med.</i> 7:89. (FC) PubMed 3. Ernst CW, <i>et al.</i> 2007. <i>Clin. Exp. Immunol.</i> 148:271. (ICC) PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_3720642 (BioLegend Cat. No. 302661) AB_3720642 (BioLegend Cat. No. 302662)

Antigen Details

Structure	Type I transmembrane glycoprotein, 55 kD
Distribution	Activated T cells and B cells, monocytes/macrophages, Treg
Function	Associates with IL-2 receptor β (CD122) and γ chains (CD132) to form high affinity IL-2R complex
Ligand/Receptor	IL-2
Cell Type	B cells, Macrophages, Monocytes, T cells, Tregs
Biology Area	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	1. Taniguchi T, <i>et al.</i> 1993. <i>Cell</i> 73:5. 2. Waldmann T. 1991. <i>J. Biol. Chem.</i> 266:2681.
Gene ID	3559

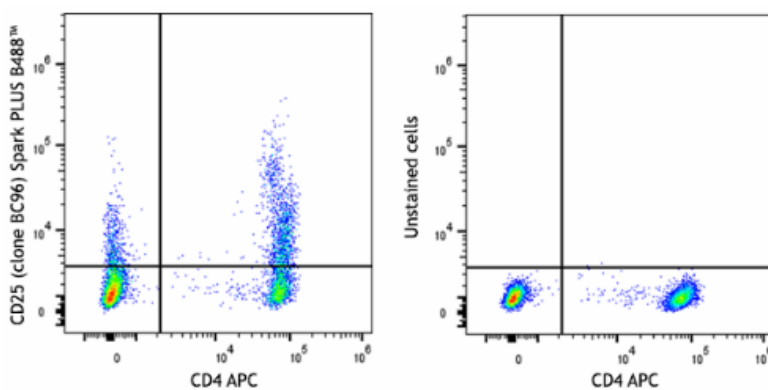
Related Protocols

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

Other Formats

TotalSeq™-D0085 anti-human CD25, APC/Fire™ 750 anti-human CD25, Brilliant Violet 510™ anti-human CD25, FITC anti-human CD25, PE anti-human CD25, PE/Cyanine5 anti-human CD25, Purified anti-human CD25, Brilliant Violet 711™ anti-human CD25, APC anti-human CD25, Brilliant Violet 650™ anti-human CD25, Brilliant Violet 421™ anti-human CD25, APC/Fire™ 810 anti-human CD25 Antibody, PerCP anti-human CD25, Brilliant Violet 570™ anti-human CD25, Spark PLUS B488™ anti-human CD25, Alexa Fluor® 488 anti-human CD25, PE/Dazzle™ 594 anti-human CD25, TotalSeq™-C0085 anti-human CD25, TotalSeq™-B0085 anti-human CD25, PE/Cyanine7 anti-human CD25, APC/Cyanine7 anti-human CD25, Spark YG™ 593 anti-human CD25 (Flexi-Fluor™) Antibody, Alexa Fluor® 647 anti-human CD25, Pacific Blue™ anti-human CD25, Alexa Fluor® 700 anti-human CD25, Biotin anti-human CD25, PerCP/Cyanine5.5 anti-human CD25, Brilliant Violet 605™ anti-human CD25, Brilliant Violet 785™ anti-human CD25, PE/Fire™ 640 anti-human CD25, TotalSeq™-A0085 anti-human CD25

Product Data



Human peripheral blood cells were stained with anti-human CD4 (clone RPA-T4) APC and anti-human CD25 (clone BC96) Spark PLUS 488™ (left) or stained with anti-human CD4 (clone RPA-T4) APC only (right). Data shown are gated on the lymphocyte population.

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