

Spark PLUS B488™ anti-human CD4 Antibody

Catalog# / Size	389715 / 25 tests 389716 / 100 tests
Clone	SK3
Regulatory Status	RUO
Other Names	T4, Leu3a
Isotype	Mouse IgG1, κ
Description	CD4, also known as T4, is a 55 kD single-chain type I transmembrane glycoprotein expressed on most thymocytes, a subset of T cells, and monocytes/macrophages. CD4, a member of the Ig superfamily, recognizes antigens associated with MHC class II molecules and participates in cell-cell interactions, thymic differentiation, and signal transduction. CD4 acts as a primary receptor for HIV, binding to HIV gp120. CD4 has also been shown to interact with IL-16.

Product Details

Verified Reactivity	Human
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 References (PubMed link indicates BioLegend citation)	1. Evans RL, <i>et al.</i> 1981. <i>Immunol.</i> 78:544 2. Arno A <i>et al.</i> 1999. <i>J. Infect. Dis.</i> 180:56 3. Muech M, <i>et al.</i> 1997. <i>Blood</i> 89:1364 4. Wang L, <i>et al.</i> 2012. <i>Cytometry A.</i> 81:567. PubMed
RRID	AB_3720649 (BioLegend Cat. No. 389715) AB_3720649 (BioLegend Cat. No. 389716)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 55 kD
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Distribution	T cell subset, majority of thymocytes, monocytes/macrophages
Function	MHC class II co-receptor, lymphocyte adhesion, thymic differentiation, HIV receptor
Ligand/Receptor	MHC class II molecules, HIV gp120, IL-16
Cell Type	Macrophages, Monocytes, T cells, Thymocytes, Tregs
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	- Center D <i>et al.</i> 1996. <i>Immunol. Today</i> 17:476. - Gaubin M <i>et al.</i> 1996. <i>Eur. J. Clin. Chem. Clin. Biochem.</i> 34:723.
Gene ID	920

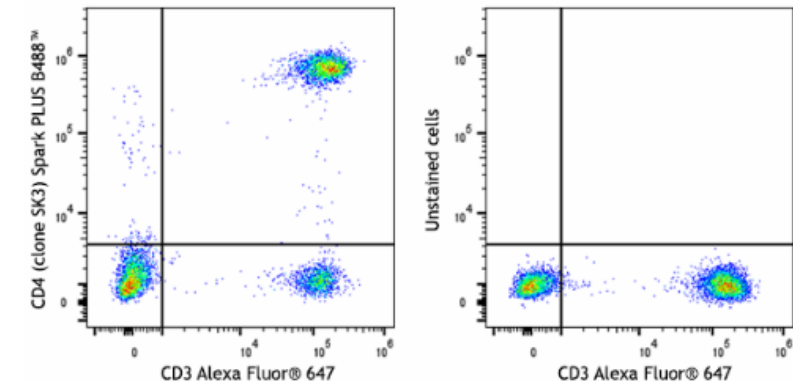
Related Protocols

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

Other Formats

Spark YG™ 581 anti-human CD4, Spark Violet™ 538 anti-human CD4 Antibody, Spark YG™ 593 anti-human CD4, Spark Blue™ 574 anti-human CD4, Alexa Fluor® 660 anti-human CD4, APC/Fire™ 750 anti-human CD4, GMP PE anti-human CD4, GMP PerCP/Cyanine5.5 anti-human CD4, GMP FITC anti-human CD4, Spark Red™ 718 anti-human CD4, GMP PerCP anti-human CD4, GMP PE/Cyanine7 anti-human CD4, Spark UV™ 387 anti-human CD4, PerCP/Fire™ 806 anti-human CD4, Spark Blue™ 515 anti-human CD4, GMP APC/Fire™ 750 anti-human CD4, Brilliant Violet 650™ anti-human CD4, PerCP/Fire™ 780 anti-human CD4, Spark Violet™ 423 anti-human CD4, PE/Fire™ 810 anti-human CD4 Antibody, GMP APC anti-human CD4, TotalSeq™-B0045 anti-human CD4 Antibody, Spark Violet™ 423 anti-human CD4 Antibody, Purified anti-human CD4 (Maxpar® Ready), GMP Pacific Blue™ anti-human CD4, PE anti-human CD4, Brilliant Violet 510™ anti-human CD4, APC/Fire™ 750 anti-human CD4, Brilliant Violet 421™ anti-human CD4, Alexa Fluor® 647 anti-human CD4, FITC anti-human CD4, PE/Dazzle™ 594 anti-human CD4, Pacific Blue™ anti-human CD4, APC/Cyanine7 anti-human CD4, Alexa Fluor® 488 anti-human CD4, Purified anti-human CD4, PE/Cyanine7 anti-human CD4, APC anti-human CD4, Spark Violet™ 500 anti-human CD4, Alexa Fluor® 700 anti-human CD4, Spark PLUS B550™ anti-human CD4, StarBright UltraViolet 740 anti-human CD4, PE/Fire™ 744 anti-human CD4, Spark PLUS UV395™ anti-human CD4, Spark PLUS B488™ anti-human CD4, Spark PLUS YG581™ anti-human CD4, Spark PLUS V450™ anti-human CD4, StarBright UltraViolet 605 anti-human CD4, StarBright UltraViolet 665 anti-human CD4, Brilliant Violet 750™ anti-human CD4, Brilliant Violet 785™ anti-human CD4, Brilliant Violet 605™ anti-human CD4, TotalSeq™-A0045 anti-human CD4, PerCP/Cyanine5.5 anti-human CD4, Spark NIR™ 685 anti-human CD4, KIRAVIA Blue 520™ anti-human CD4, APC/Fire™ 810 anti-human CD4, PE/Fire™ 700 anti-human CD4, PerCP anti-human CD4, Brilliant Violet 570™ anti-human CD4, StarBright UltraViolet 575 anti-human CD4, StarBright UltraViolet 795 anti-human CD4, Spark PLUS V475™ anti-human CD4 Antibody, TotalSeq™-C0045 anti-human CD4, PE/Cyanine5 anti-human CD4, Spark Blue™ 550 anti-human CD4, PE/Fire™ 640 anti-human CD4, Biotin anti-human CD4, GMP Spark Violet™ 423 anti-human CD4, Spark PLUS B574™ anti-human CD4 Antibody, Spark Violet™ 538 anti-human CD4, Brilliant Violet 711™ anti-human CD4

Product Data



Human peripheral blood cells were stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 647 and anti-human CD4 (clone SK3) Spark PLUS B488™ (left) or stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 647 only (right). Data shown were gated on the lymphocyte population.

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