

PerCP/Cyanine5.5 anti-human CD4 Antibody

Catalog# / Size	344607 / 25 tests 344608 / 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 PerCP/Cyanine5.5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References	<ol style="list-style-type: none"> Evans RL, <i>et al.</i> 1981. <i>Immunol.</i> 78:544 Arno A <i>et al.</i> 1999. <i>J. Infect. Dis.</i> 180:56 Muech M, <i>et al.</i> 1997. <i>Blood</i> 89:1364 Wang L, <i>et al.</i> 2012. <i>Cytometry A.</i> 81:567. PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> Manukyan G, <i>et al.</i> 2020. <i>Auto Immun Highlights.</i> 11:5. PubMed Matzen SMH, <i>et al.</i> 2018. <i>Health Sci Rep.</i> 1:e90. PubMed Cao M, <i>et al.</i> 2020. <i>Aging Dis.</i> 1.479861111. PubMed Klichinsky M, <i>et al.</i> 2020. <i>Nat Biotechnol.</i> 38:947. PubMed Yamaguchi A, <i>et al.</i> 2021. <i>J Thorac Dis.</i> 13:5430. PubMed Sung BY, <i>et al.</i> 2022. <i>J Clin Invest.</i> 132:. PubMed Atwany NZ, <i>et al.</i> 2020. <i>Biology (Basel).</i> 9:00. PubMed Schoutrop E, <i>et al.</i> 2022. <i>Oncoimmunology.</i> 11:2093426. PubMed Lozano-Rodríguez R, <i>et al.</i> 2022. <i>Cell Rep.</i> 38:110235. PubMed

10. Lima J, *et al.* 2016. *Reprod Sci.* 10.1177/1933719116653680. [PubMed](#)
11. Libera J, *et al.* 2020. *Front Immunol.* 11:567472. [PubMed](#)
12. Shuwa HA, *et al.* 2021. *Med.* 2(6):720-735.e4. [PubMed](#)
13. Roudko V, *et al.* 2020. *Cell.* 183(6):1634-1649.e17. [PubMed](#)
14. Gustafson CE, *et al.* 2020. *JCI Insight.* 5: [PubMed](#)
15. Faissner S, *et al.* 2022. *Front Immunol.* 13:980526. [PubMed](#)
16. Nasrallah R, *et al.* 2020. *Nature.* 583:447. [PubMed](#)

RRID AB_1953235 (BioLegend Cat. No. 344607)
 AB_1953236 (BioLegend Cat. No. 344608)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 55 kD
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	1. Center D <i>et al.</i> 1996. <i>Immunol. Today</i> 17:476. 2. Gaubin M <i>et al.</i> 1996. <i>Eur. J. Clin. Chem. Clin. Biochem.</i> 34:723.
Gene ID	920

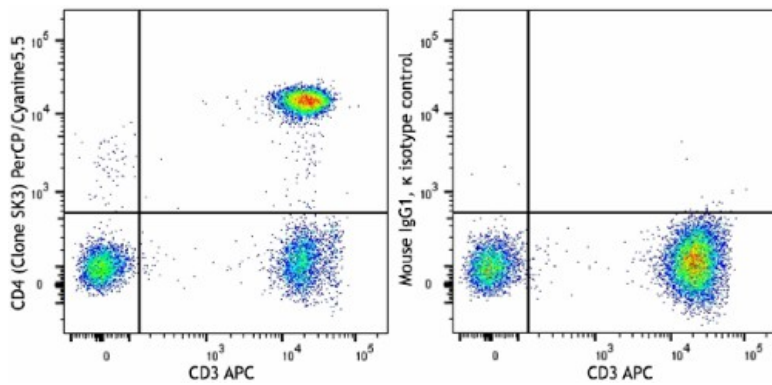
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PerCP anti-human CD4, Purified anti-human CD4, FITC anti-human CD4, PE anti-human CD4, PerCP/Cyanine5.5 anti-human CD4, Biotin anti-human CD4, PE/Cyanine7 anti-human CD4, APC anti-human CD4, APC/Cyanine7 anti-human CD4, Alexa Fluor® 488 anti-human CD4, Pacific Blue™ anti-human CD4, Alexa Fluor® 700 anti-human CD4, Purified anti-human CD4 (Maxpar® Ready), Brilliant Violet 421™ anti-human CD4, Brilliant Violet 510™ anti-human CD4, Alexa Fluor® 647 anti-human CD4, APC/Fire™ 750 anti-human CD4, PE/Dazzle™ 594 anti-human CD4, Brilliant Violet 785™ anti-human CD4, Brilliant Violet 750™ anti-human CD4, Brilliant Violet 605™ anti-human CD4, Brilliant Violet 711™ anti-human CD4, TotalSeq™-A0045 anti-human CD4, TotalSeq™-C0045 anti-human CD4, PE/Cyanine5 anti-human CD4, Spark Blue™ 550 anti-human CD4, Spark NIR™ 685 anti-human CD4, KIRAVIA Blue 520™ anti-human CD4, APC/Fire™ 810 anti-human CD4, PE/Fire™ 640 anti-human CD4, PE/Fire™ 700 anti-human CD4, Spark Violet™ 538 anti-human CD4 Antibody, Spark YG™ 581 anti-human CD4, Alexa Fluor® 660 anti-human CD4, Spark YG™ 593 anti-human CD4, PE/Fire™ 810 anti-human CD4 Antibody, APC/Fire™ 750 anti-human CD4, Spark Blue™ 574 anti-human CD4, GMP APC anti-human CD4, TotalSeq™-B0045 anti-human CD4 Antibody, Spark Violet™ 423 anti-human CD4 Antibody, GMP Pacific Blue™ anti-human CD4, Spark UV™ 387 anti-human CD4, GMP PE 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 Violet™ 500 anti-human CD4, GMP PerCP/Cyanine5.5 anti-human CD4

Product Data



Human peripheral blood lymphocytes were stained with CD3 APC and CD4 (clone SK3) PerCP/Cyanine5.5 (left), or mouse IgG1, κ isotype control (right).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
 Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587