

Purified anti-human CD4 (Maxpar[®] Ready) Antibody

Catalog# / Size	344625 / 100 µg
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 EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF[®] - Verified
Recommended Usage	This product is suitable for use with the Maxpar[®] Metal Labeling Kits . For metal labeling using Maxpar [®] Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar [®] Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar [®] User Guide when conjugating Maxpar [®] Ready antibodies.
Additional Product Notes	Maxpar [®] is a registered trademark of Standard BioTools Inc.
Application References	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
(PubMed link indicates BioLegend citation)	
Product Citations	1. Mishra A, <i>et al.</i> 2021. <i>Cell.</i> 184(13):3394-3409.e20. PubMed
RRID	AB_2563749 (BioLegend Cat. No. 344625)

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

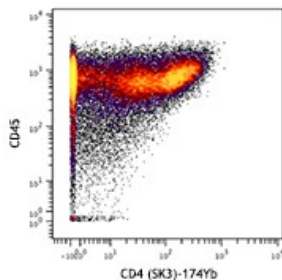
Related Protocols

[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

Product Data



Human PBMCs stained with 154Sm-anti-CD45 (HI30) and 174Yb-anti-CD4 (SK3). Data provided by DVS Sciences.

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