

PE anti-human CD4 Antibody

Catalog# / Size	357403 / 25 tests 357404 / 100 tests
Clone	A161A1
Regulatory Status	RUO
Other Names	T4/Leu-3
Isotype	Rat IgG2b, κ
Description	CD4, also known as T4/Leu-3, is a 55 kD single-chain type I transmembrane glycoprotein and member of the immunoglobulin superfamily. It is expressed on most thymocytes, helper T cells, type II NKT cells, and monocytes/macrophages. CD4 is part of the TCR/CD3 complex, binds to $\beta 2$ domain from the MHC class II molecule, and participates in TCR signal transduction. CD4 is the receptor of IL-16 and is a coreceptor for the human immunodeficiency virus (HIV) and human herpes virus 7 (HHV-7).

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Human CD4 T 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 PE 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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Product Citations	<ol style="list-style-type: none">1. Martínez-Fábregas J, <i>et al.</i> 2020. Cell Rep. 33:108545. PubMed2. Valle-Reyes S, <i>et al.</i> 2020. Cell Physiol Biochem. 54:842. PubMed3. Gomzikova MO, <i>et al.</i> 2020. Pharmaceutics. 12:00. PubMed4. Martin SD, <i>et al.</i> 2018. Oncoimmunology. 7:e1371895. PubMed5. Martínez-Fábregas J, <i>et al.</i> 2019. Elife. 8:e49314. PubMed6. Longino NV, <i>et al.</i> 2019. Cancer Immunol Res. 7:1727. PubMed
RRID	AB_2562035 (BioLegend Cat. No. 357403) AB_2562036 (BioLegend Cat. No. 357404)

Antigen Details

Structure	55 kD, type I transmembrane glycoprotein, member of the Ig superfamily
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Distribution	Helper T cells, subset of thymocytes, monocytes/macrophages, type II NKT cells
Interaction	Part of the TCR/CD3 complex
Ligand/Receptor	β 2 domain from the MHC class II
Cell Type	T cells, Monocytes, Macrophages, NKT cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Zhu J, <i>et al.</i> 2010. <i>Annu Rev. Immunol.</i> 28:445. 2. Vignali DA. 2010. <i>J. Immunol.</i> 184:5933. 3. Zhou L, <i>et al.</i> 2009. <i>Immunity</i> 30:646. 4. Singer A, <i>et al.</i> 2008. <i>Nat. Rev. Immunol.</i> 8:788. 5. Zhu J and Paul WE. 2008. <i>Blood</i> 112:1557.
Gene ID	920

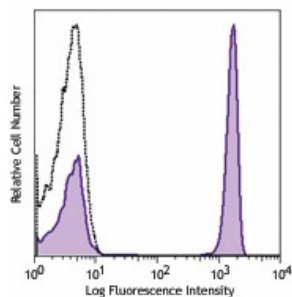
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PerCP/Cyanine5.5 anti-human CD4, APC anti-human CD4, PE/Cyanine7 anti-human CD4, PE/Dazzle™ 594 anti-human CD4, APC/Cyanine7 anti-human CD4, Alexa Fluor® 700 anti-human CD4, Brilliant Violet 510™ anti-human CD4, APC/Fire™ 750 anti-human CD4, Alexa Fluor® 647 anti-human CD4, Biotin anti-human CD4, Brilliant Violet 421™ anti-human CD4, PE/Cyanine5 anti-human CD4, Purified anti-human CD4, PE anti-human CD4, FITC anti-human CD4

Product Data



Human peripheral blood lymphocytes were stained with CD4 (clone A161A1) PE (filled histogram) or rat IgG2b, κ PE isotype control (open histogram).

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