

Alexa Fluor® 700 anti-human CD4 Antibody

Catalog# / Size	357417 / 25 tests 357418 / 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 Alexa Fluor® 700 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	<p>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.</p> <p>* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Product Citations	1. Mender I, <i>et al.</i> 2020. Cancer Cell. 38(3):400-411.e6. PubMed
RRID	AB_2616932 (BioLegend Cat. No. 357417) AB_2616933 (BioLegend Cat. No. 357418)

Antigen Details

Structure	55 kD, type I transmembrane glycoprotein, member of the Ig superfamily
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

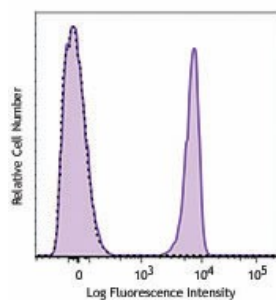
Related Protocols

[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) Alexa Fluor® 700 (filled histogram) or rat IgG2b, κ Alexa Fluor® 700 isotype control (open histogram).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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