

Purified anti-human CD4 Antibody

Catalog# / Size	396202 / 100 µg
Clone	A17070D
Regulatory Status	RUO
Other Names	T4/Leu-3
Isotype	Mouse 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 β2 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	Mouse
Immunogen	Recombinant human CD4
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	IHC-P - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5 - 10 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2888738 (BioLegend Cat. No. 396202)

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	β2 domain from the MHC class II
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

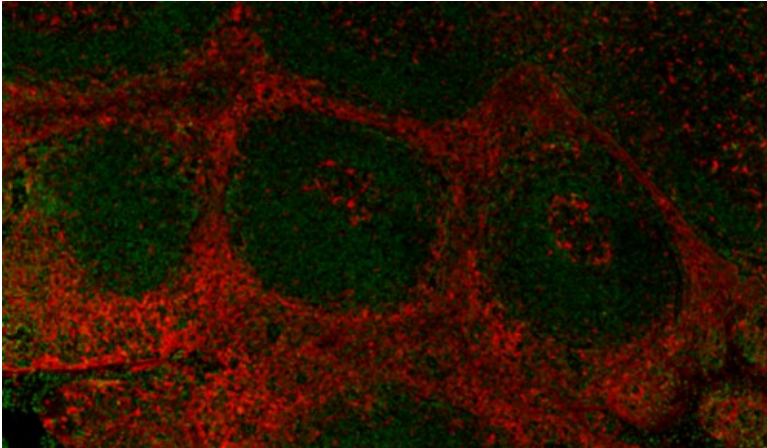
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

Other Formats

Purified anti-human CD4 Antibody, Spark YG™ 570 anti-human CD4

Product Data



Human paraffin-embedded tonsil tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Sodium Citrate H.I.E.R. 1X at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL purified anti-human CD4 (clone A17070D) at 4°C overnight, followed by 2.5 µg/mL anti-mouse IgG (Poly4053) Alexa Fluor® 594 (red) for two hours at room temperature. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

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