

## Purified anti-human CD4 Antibody

<b>Catalog# / Size</b>	396202 / 100 µg
<b>Clone</b>	A17070D
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	T4/Leu-3
<b>Isotype</b>	Mouse IgG2b, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human CD4
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">IHC-P - Quality tested</a>
<b>Recommended Usage</b>	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.
<b>RRID</b>	AB_2888738 (BioLegend Cat. No. 396202)

### Antigen Details

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<b>Structure</b>	55 kD, type I transmembrane glycoprotein, member of the Ig superfamily
<b>Distribution</b>	Helper T cells, subset of thymocytes, monocytes/macrophages, type II NKT cells
<b>Interaction</b>	Part of the TCR/CD3 complex
<b>Ligand/Receptor</b>	β2 domain from the MHC class II
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Zhu J, <i>et al.</i> 2010. <i>Annu Rev. Immunol.</i> 28:445.</li><li>2. Vignali DA. 2010. <i>J. Immunol.</i> 184:5933.</li><li>3. Zhou L, <i>et al.</i> 2009. <i>Immunity</i> 30:646.</li><li>4. Singer A, <i>et al.</i> 2008. <i>Nat. Rev. Immunol.</i> 8:788.</li><li>5. Zhu J and Paul WE. 2008. <i>Blood</i> 112:1557.</li></ol>
<b>Gene ID</b>	<a href="#">920</a>

## Related Protocols

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

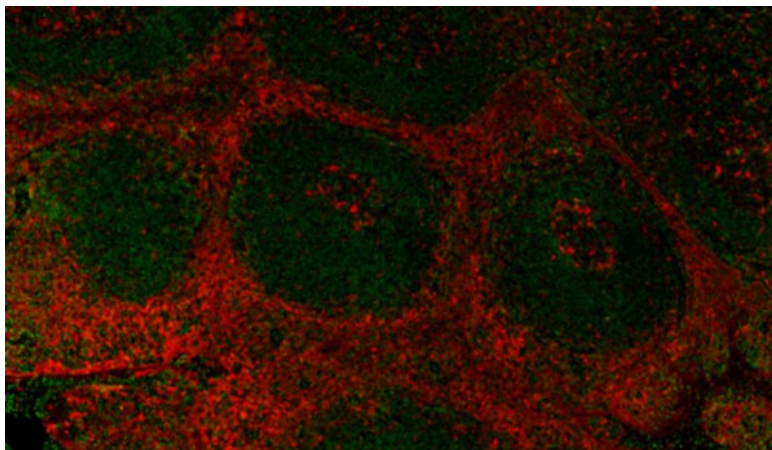
## Other Formats

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

## Product Data

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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.

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