

### APC Anti-CD4 antibody [GK1.5] ab25497

#### Overview

<b>Product name</b>	APC Anti-CD4 antibody [GK1.5]
<b>Description</b>	APC Rat monoclonal [GK1.5] to CD4
<b>Host species</b>	Rat
<b>Conjugation</b>	APC. Ex: 645nm, Em: 660nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue/ cell preparation (Mouse) - cloned mouse CTL line V4.
<b>General notes</b>	<p>This antibody blocks helper T cell responses to MHC class II antigens,including cytolysis, proliferation, allogeneic B cell help, and release of lymphokines.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at +4°C. It is important to note that this product is reported to be light sensitive.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.142% Dibasic monohydrogen sodium phosphate, 0.87% Sodium chloride, 0.1% Gelatin</p>
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	Purified from TCS
<b>Primary antibody notes</b>	This antibody blocks helper T cell responses to MHC class II antigens,including cytolysis, proliferation, allogeneic B cell help, and release of lymphokines.
<b>Clonality</b>	Monoclonal

<b>Clone number</b>	GK1.5
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab25497 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.

## Target

<b>Function</b>	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
<b>Sequence similarities</b>	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
<b>Post-translational modifications</b>	Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.
<b>Cellular localization</b>	Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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