


## Product datasheet

### PerCP/Cy5.5® Anti-CD4 antibody [OKT4] ab210324

[1 References](#) [1 Image](#)

#### Overview

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<b>Product name</b>	PerCP/Cy5.5® Anti-CD4 antibody [OKT4]
<b>Description</b>	PerCP/Cy5.5® Mouse monoclonal [OKT4] to CD4
<b>Host species</b>	Mouse
<b>Conjugation</b>	PerCP/Cy5.5®. Ex: 482nm, Em: 690nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chimpanzee, Cynomolgus monkey, Rhesus monkey 
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human CD4. Sheep Erythrocyte Rosette-purified Human T Cells.
<b>Positive control</b>	Human peripheral blood lymphocytes.
<b>General notes</b>	<p>This antibody recognizes a different epitope, and thus does not block binding of, the alternative Anti-Human CD4 antibody clone RPA-T4.</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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Store In the Dark.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: 0.12% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride, 0.1% Gelatin
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	ab210324 was purified from tissue culture supernatant via affinity chromatography. The purified

antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	OKT4
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab210324 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 5µl for 10 <sup>5-8</sup> cells. The antibody has been diluted for use at 5 µl (0.25 µg) per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µl.

## Target

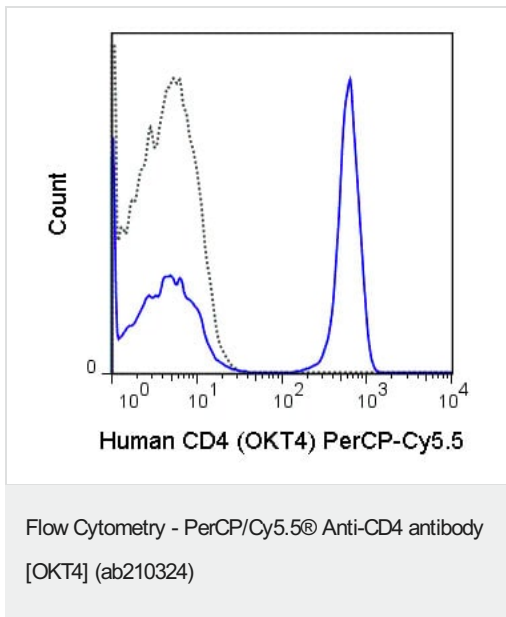
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<b>Function</b>	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
<b>Sequence similarities</b>	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 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.

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## Images

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Flow cytometric analysis of Human peripheral blood lymphocytes labeling CD4 with 5  $\mu$ l (0.25  $\mu$ g) ab210324 (solid line), compared with 0.25  $\mu$ g of PerCP/Cy5.5® Mouse IgG2b isotype control (dashed line).

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

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