


Product datasheet

PE/Cy7® Anti-CD4 antibody [SK3] ab210372

1 Image

Overview

Product name	PE/Cy7® Anti-CD4 antibody [SK3]
Description	PE/Cy7® Mouse monoclonal [SK3] to CD4
Host species	Mouse
Conjugation	PE/Cy7®. Ex: 496nm, Em: 774nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human Predicted to work with: Cynomolgus monkey, Rhesus monkey 
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	Human peripheral blood lymphocytes
General notes	<p>This antibody does not block binding of alternative clone RPA-T4, suggesting that they recognize different epitopes.</p> <p>This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy® and CyDye® are trademarks of Cytiva.</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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: 0.12% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride, 0.1% Gelatin

Purity	Affinity purified
Purification notes	ab210372 was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.
Clonality	Monoclonal
Clone number	SK3
Isotype	IgG1
Light chain type	kappa

Applications

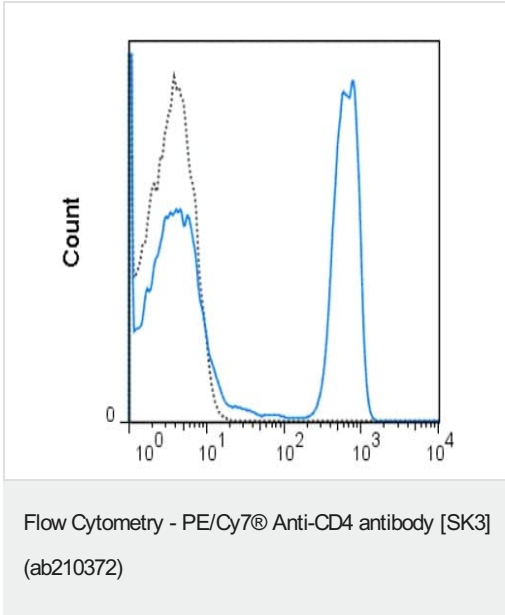
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab210372 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 5µl for 10 ⁵⁻⁸ cells. The antibody has been diluted for use at 5 µl (0.06 µg) per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µl.

Target

Function	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
Sequence similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.
Cellular localization	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.

Images



Flow cytometric analysis of Human peripheral blood lymphocytes labeling CD4 with 5 μ l (0.06 μ g) ab210372 (solid line), compared with 0.06 μ g PE/Cy7 Mouse IgG1 isotype control (dashed line).

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