abcam

Product datasheet

FITC Anti-CD4 antibody [RPA-T4] ab86886

1 References 1 Image

Overview

Product name	FITC Anti-CD4 antibody [RPA-T4]
Description	FITC Mouse monoclonal [RPA-T4] to CD4
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human peripheral blood mononuclear cells (PBMCs)
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: 0.87% Sodium chloride, 0.1% Gelatin, 0.16% Sodium phosphate
Purity	Protein G purified
Clonality	Monoclonal
Clone number	RPA-T4
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86886 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 10µl for 10^6 cells. **ab106163** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

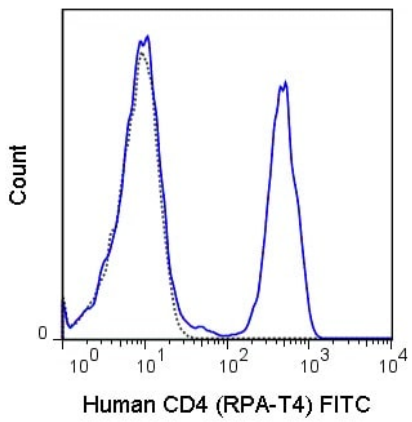
Function Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.

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 Cytometry - FITC Anti-CD4 antibody [RPA-T4] (ab86886)

Flow cytometry analysis showing human peripheral blood lymphocytes stained with ab86886 at 1µg (solid line). FITC Mouse IgG1 (1µg) was used as isotype contol (dashed line).

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