

Product datasheet

FITC Anti-CD4 antibody [RM4-5] ab210349

[1 Image](#)

Overview

Product name	FITC Anti-CD4 antibody [RM4-5]
Description	FITC Rat monoclonal [RM4-5] to CD4
Host species	Rat
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse CD4. Mouse Thymocytes (BALB/c)
Positive control	C57Bl/6 splenocytes.
General notes	<p>The RM4-5 antibody is widely used as a phenotypic marker for CD4 expression. If used together, the RM4-5 antibody and an alternative antibody, Anti-Mouse CD4 clone GK1.5, will “compete” for binding, i.e. RM4-5 antibody is able to block GK1.5 antibody binding to cells. In contrast, RM4-5 antibody does not block the binding of Anti-Mouse CD4 clone RM4-4 to cells.</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	Protein A purified
Purification notes	ab210349 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	RM4-5
Isotype	IgG2a
Light chain type	kappa

Applications

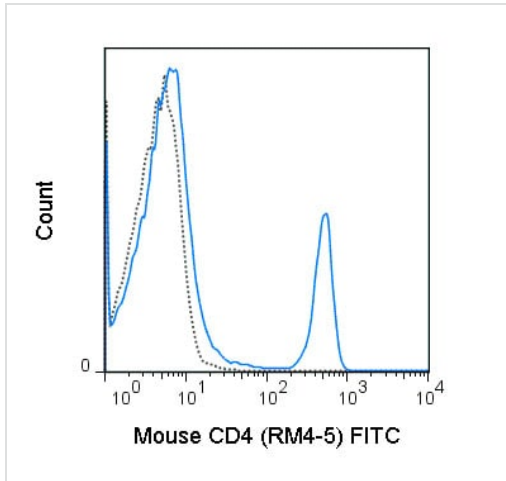
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab210349 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Use 0.25 µg.

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 C57Bl/6 splenocytes labeling CD4 with 0.25 µg ab210349 (solid line), compared with 0.25 µg FITC Rat IgG2a (dashed line).

Flow Cytometry - FITC Anti-CD4 antibody [RM4-5] (ab210349)

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