

## Product datasheet

# redFluor™ 710 Anti-CD4 antibody [RM4-5] ab242011

[1 Image](#)

### Overview

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<b>Product name</b>	redFluor™ 710 Anti-CD4 antibody [RM4-5]
<b>Description</b>	redFluor™ 710 Rat monoclonal [RM4-5] to CD4
<b>Host species</b>	Rat
<b>Conjugation</b>	redFluor™ 710
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Positive control</b>	Flow Cyt: C57Bl/6 splenocytes.
<b>General notes</b>	<p>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&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>	Affinity purified
<b>Purification notes</b>	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>	RM4-5
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab242011 in the following tested applications.

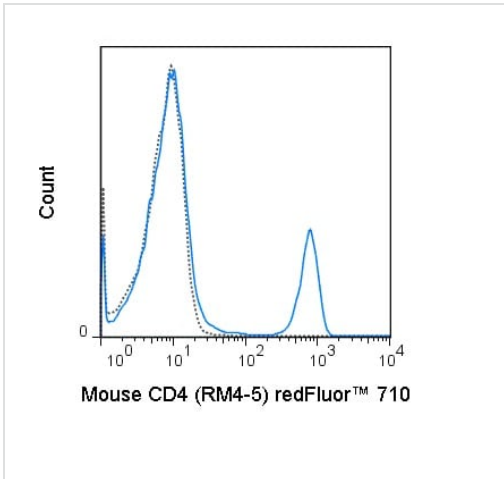
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Use 0.125 µg. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

## 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.

## Images



Flow cytometric analysis of C57Bl/6 splenocytes labeling CD4 with 0.125 µg ab242011 (solid line) or 0.125 µg redFluor™ 710 Rat IgG2a (dashed line).

Flow Cytometry - redFluor™ 710 Anti-CD4 antibody  
[RM4-5] (ab242011)

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

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