

Product datasheet

APC Anti-CD4 antibody [MEM-241] ab18280

[1 References](#) [2 Images](#)

Overview

Product name	APC Anti-CD4 antibody [MEM-241]
Description	APC Mouse monoclonal [MEM-241] to CD4
Host species	Mouse
Conjugation	APC. Ex: 645nm, Em: 660nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Fusion protein (Human).
General notes	<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.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituents: PBS, BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	MEM-241
Isotype	IgG1

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab18280 in the following tested applications.

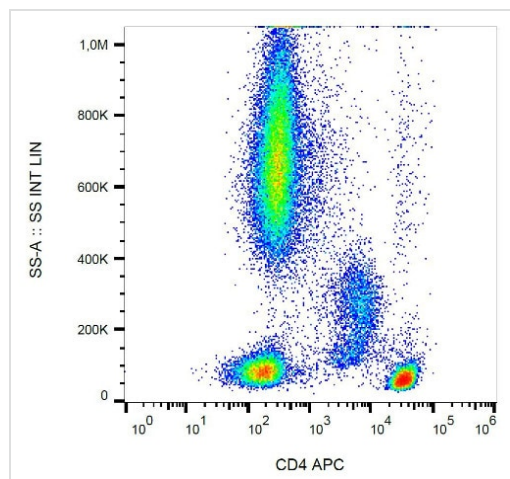
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/20. ab37391 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

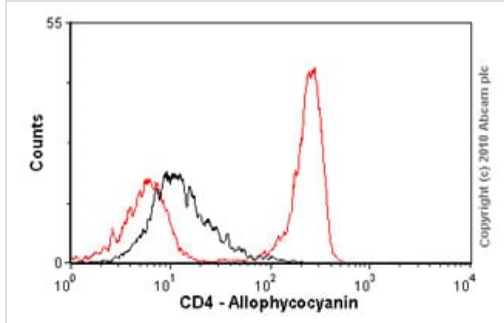
Function	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
Sequence similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational 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



Surface staining of human peripheral blood cells with anti-human CD4 (MEM-241) APC.

Flow Cytometry - APC Anti-CD4 antibody [MEM-241] (ab18280)



Flow Cytometry - APC Anti-CD4 antibody [MEM-241] (ab18280)

Overlay histogram showing peripheral blood lymphocytes stained with ab18280 (red line). The cells were incubated with the antibody (ab18280, 1/20 dilution) for 30 min at 4°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10⁶ cells) with secondary antibody DyLight® 649 goat anti-mouse IgG (H&L) ([ab96882](#)) at 1/200 dilution for 30 min at 4°C. Acquisition of >5,000 events was performed gating on peripheral blood lymphocytes.

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

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