

Product datasheet

Anti-CD4 antibody [74-12-4] (Phycoerythrin) ab25354

[2 Images](#)

Overview

Product name	Anti-CD4 antibody [74-12-4] (Phycoerythrin)
Description	Mouse monoclonal [74-12-4] to CD4 (Phycoerythrin)
Host species	Mouse
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Specificity	ab25354 recognises porcine CD4a.
Tested applications	Suitable for: Flow Cyt, IP, Microcytotoxicity testing
Species reactivity	Reacts with: Pig
Immunogen	The details of the immunogen for this antibody are not available.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, PBS; Stabilizing agent
Purity	IgG fraction
Clonality	Monoclonal
Clone number	74-12-4
Isotype	IgG2b
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab25354** 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		

Application	Abreviews	Notes
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IP

Microcytotoxicity testing

Application notes

Flow Cyt: Use 0.2µg for 10⁶ cells.
 IP: Use at an assay dependent dilution.
 Mct: Use at an assay dependent dilution.

Not yet tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

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.

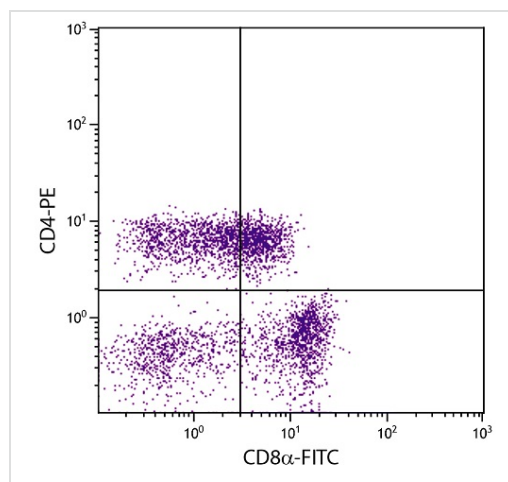
Post-translational modifications

Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.

Cellular localization

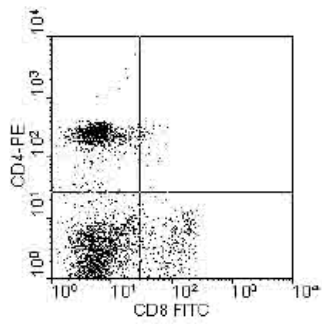
Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope glycoprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

Images



Flow Cytometry analysis of Porcine peripheral blood lymphocytes labeling CD4 with ab25354 at 0.1 µg/10⁶ cells. A Mouse Anti-Porcine CD8α-FITC was used as the secondary antibody.

Flow Cytometry - Anti-CD4 antibody [74-12-4] (Phycoerythrin) (ab25354)



Flow Cytometry / FACS - CD4 antibody [74-12-4]
(ab25354)

Peripheral blood mononuclear cells were isolated from heparinized pig blood on Ficoll-Hypaque density gradients and double-stained with ab25354 at 0.2ug/10⁶ cells and mouse anti-pig CD8a-FITC. Lymphocytes were gated and analyzed on a FACScan[®] flow cytometer (BDIS, San Jose, CA).

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