

Product datasheet

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

2 Images

Overview

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

Properties

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

Application	Abreviews	Notes
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Microcytotoxicity testing

**Application notes**

Flow Cyt: Use 0.2µg for 10<sup>6</sup> 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.

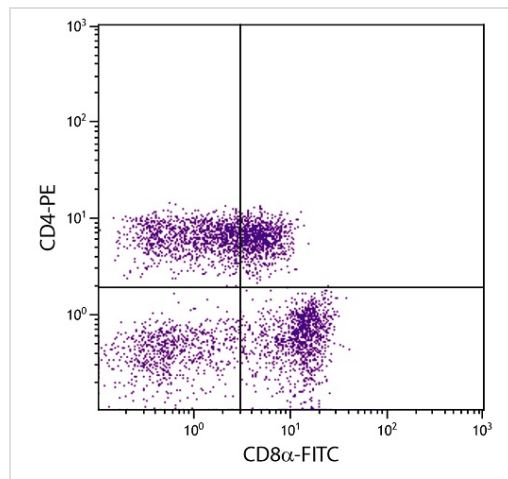
**Post-translational modifications**

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

**Cellular localization**

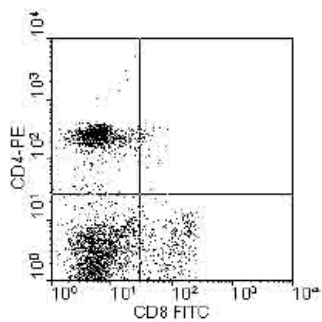
Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters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

**Images**



Flow Cytometry analysis of Porcine peripheral blood lymphocytes labeling CD4 with ab25354 at 0.1 µg/10<sup>6</sup> 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/10<sup>6</sup> 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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