

## Product datasheet

# Anti-CD4 antibody [3-4F4] (Biotin) ab25147

### Overview

<b>Product name</b>	Anti-CD4 antibody [3-4F4] (Biotin)
<b>Description</b>	Mouse monoclonal [3-4F4] to CD4 (Biotin)
<b>Host species</b>	Mouse
<b>Conjugation</b>	Biotin
<b>Specificity</b>	ab25147 recognises CD4.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IHC-Fr, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Cat
<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 short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: PBS
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3-4F4
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

### Applications

Our [Abpromise guarantee](#) covers the use of **ab25147** 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
IHC-Fr		
IP		

**Application notes**

Flow Cyt: Use <1µg for 10<sup>6</sup> cells.  
IHC-Fr (acetone-fixed, frozen tissue sections): Use at an assay dependent dilution.  
IP: 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.

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