

Product datasheet

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

Overview

Product name	Anti-CD4 antibody [3-4F4] (Biotin)
Description	Mouse monoclonal [3-4F4] to CD4 (Biotin)
Host species	Mouse
Conjugation	Biotin
Specificity	ab25147 recognises CD4.
Tested applications	Suitable for: Flow Cyt, IHC-Fr, IP
Species reactivity	Reacts with: Cat
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 short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS
Purity	IgG fraction
Clonality	Monoclonal
Clone number	3-4F4
Isotype	IgG1
Light chain type	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	<p>Flow Cyt: Use <1µg for 10⁶ cells.</p> <p>IHC-Fr (acetone-fixed, frozen tissue sections): Use at an assay dependent dilution.</p> <p>IP: Use at an assay dependent dilution.</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>
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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	<p>Contains 3 Ig-like C2-type (immunoglobulin-like) domains.</p> <p>Contains 1 Ig-like V-type (immunoglobulin-like) domain.</p>
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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