

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)
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		
IHC-Fr		

Application	Abreviews	Notes
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IP

Application notes

Flow Cyt: Use <math><1\mu\text{g}</math> for 10^6 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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