abcam

Product datasheet

Anti-CD4 antibody [Q4120] (FITC) ab13437

1 References

Overview

Product name	Anti-CD4 antibody [Q4120] (FITC)
Description	Mouse monoclonal [Q4120] to CD4 (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Conjugation notes	F/P Molar Ratio: 3 to 8.
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	CD4-transfected mouse T-cell hybridoma, 3DT, followed by $CD4^+$ human T-cell CEM cells.
Epitope	The epitope recognized by the Q4120 clone is located in 1 + 2 domains, i.e. amino acid residues 1-183 and is sensitive to formalin fixation and paraffin embedding.
General notes	If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Properties

Form	Liquid
Storage instructions	Store at +4°C in the dark.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 1% BSA, 0.01M PBS, pH 7.4
Purity	Protein A purified
Clonality	Monoclonal
Clone number	Q4120
Isotype	IgG1

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab13437 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 notes

Flow Cyt: Use 10µl for 10^6 cells.

FITC Conjugated Monoclonal Anti-Human CD4 may be
used for:
1. Identification, quantification and monitoring of helper/inducer T cells in peripheral blood, biological fluids, lymphoid organs, and other tissues.
2. Analysis of T cell mediated cytotoxicity.
3. Characterization of subtypes of T cell leukemias and lymphomas.
4. Studies of T cells in health and disease.

Not 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.

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