abcam

Product datasheet

Anti-CD4 antibody [EDU-2] (Phycoerythrin) ab1155

Overview

Product name	Anti-CD4 antibody [EDU-2] (Phycoerythrin)
Description	Mouse monoclonal [EDU-2] to CD4 (Phycoerythrin)
Host species	Mouse
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Human T-lymphocytes.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	PBS with 0.5% BSA and 0.1% sodium azide
Clonality	Monoclonal
Clone number	EDU-2
Myeloma	unknown
Isotype	IgG2a
Light chain type	unknown

Applications

Our Abpromise guarantee covers the use of **ab1155** 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	1. Counting and identification of the T-helper/inducer lymphocyte subset in human lysed whole peripheral blood or mononuclear cells separated by density gradient. 2. Studies of HIV infection. Patients infected with HIV lose CD4+ and contemporarilyincrease CD8+ lymphocyte subset

3. Characterization of subtypes of T-cell leukaemias and lymphomas.

CD4 (PE) immunofluorescence analysis can be performed on a flow cytometerequipped with an excitation source of 488nm and fitted with logarithmic amplifiers.

10µl ofCD4 (PE) is sufficient for labelling of $1x10^6$ cells.
Molecular F/P ratio: 1.0

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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