

Datasheet for ABIN6657902
anti-CD4 antibody (PE)



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2 Images

Overview

Quantity:	200 µg
Target:	CD4
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD4 antibody is conjugated to PE
Application:	Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

Purpose:	CD4 Phycoerythrin Antibody
Immunogen:	Anti-CD4 Antibody (Monoclonal) was produced by repeated immunizations with Mouse CTL clone V4.
Clone:	GK1-5
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	Reactivity is observed against mouse CD4.
Purification:	Phycoerythrin conjugated CD4 Monoclonal Antibody was Protein G Purified and is directed against mouse CD4.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

Target Details

Target:	CD4
Alternative Name:	CD4 (CD4 Products)
Background:	<p>Synonyms: T-cell surface glycoprotein CD4, T-cell surface antigen T4/Leu-3, CD4 Antibody, L3T4, T4</p> <p>Background: CD4 (cluster of differentiation 4) is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. It is a member of the immunoglobulin superfamily. On T cells, it is the co-receptor for the T cell receptor (TCR) and amplifies the signal generated by the TCR by recruiting the tyrosine kinase lck that is essential for activating many molecules involved in the signaling cascade of an activated T cell. It is an important component of the immune system and is also the cellular receptor for HIV-1. It consists of a cytoplasmic tail, one transmembrane region, and four extracellular domains, D1-D4. It maps to 12pter-p12 region of human chromosome.</p> <p>Gene Name: CD4</p>
Gene ID:	12504
NCBI Accession:	NP_038516
UniProt:	P06332
Pathways:	TCR Signaling , Maintenance of Protein Location , CXCR4-mediated Signaling Events

Application Details

Application Notes:	Flow_Cytometry_Dilution: 0.1-1 µg/10 ⁶ cells IF_Microscopy_Dilution: User Optimized
Comment:	Anti-CD4 is tested for Flow Cytometry (Cell Surface) and useful for Immunofluorescence. Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

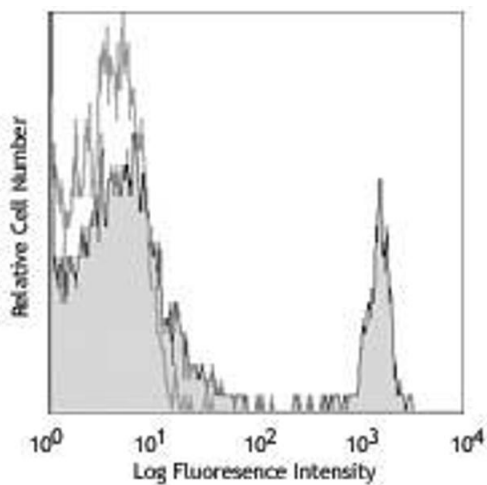
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.05 % BSA Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide

Handling

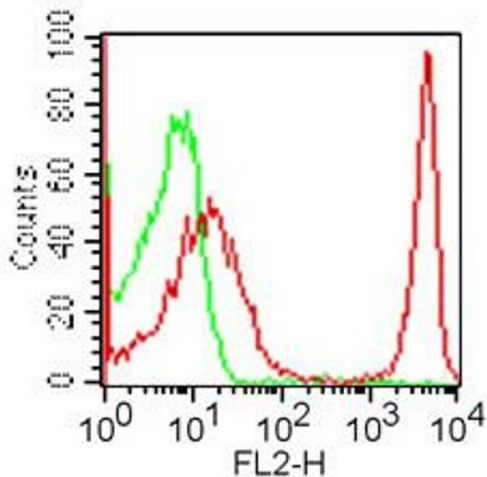
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiry Date:	6 months

Images



Flow Cytometry

Image 1. Flow Cytometry - Rat anti-MOUSE CD4 PE Flow Cytometry of Rat anti-MOUSE CD4 antibody Phycoerythrin conjugated. Cells: 10^6 C57BL/6 mouse splenocytes. Stimulation: none. Antibody: (GRAY) rat IgG2b kappa PE isotype control antibody; (BLACK) Phycoerythrin Anti-CD4 rat secondary antibody using 1 μ g.



Flow Cytometry

Image 2. Flow Cytometry - Rat anti-MOUSE CD4 PE Cell Surface Flow Cytometry of Rat anti-MOUSE CD4 antibody Phycoerythrin conjugated. Cells: 10^6 BALB/c mouse splenocytes. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Phycoerythrin Anti-CD4 rat secondary antibody using 1 μ g.