Datasheet for ABIN6655533

anti-CD4 antibody (PE)

3 Images

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Overview

Quantity:	500 µL
Target:	CD4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD4 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	CD4 Phycoerythrin Antibody
Immunogen:	Anti-CD4 Antibody (Monoclonal) was produced by repeated immunizations with PHA-stimulated human peripheral blood mononuclear cells (PBMC).
Clone:	RPA-T4
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	Reactivity is observed against human CD4 and chimpanzee.
Purification:	Phycoerythrin conjugated CD4 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against human CD4.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

Target Details

Target:	CD4
Alternative Name:	CD4 (CD4 Products)
Background:	Synonyms: T-cell surface glycoprotein CD4, T-cell surface antigen T4/Leu-3, CD4, FITC anti-human CD4, RPA-T4, FITC, T4 Background: CD4 is an Immunoglobulin Superfamily protein and an accessory protein for MHC class-II antigen/ T-cell receptor interaction. It may regulate T-cell activation. It plays a more general role in mediating cell recognition events than merely those of cellular immune response. The T4 Molecule serves as a receptor for the human immunodeficiency virus. A Type I membrane protein, it is expressed on T lymphocytes, B-cells, macrophages, and granulocytes. It is also expressed in a developmentally regulated manner in specific regions of the brain. Gene Name: CD4
Gene ID:	920
NCBI Accession:	NP_000607
UniProt:	P01730
Pathways:	TCR Signaling, Maintenance of Protein Location, CXCR4-mediated Signaling Events

Application Details

Application Notes:	Optional[Neutralization_Dilution]: 10 µL/10^6 cells (0.1 µg)
Comment:	Anti-CD4 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

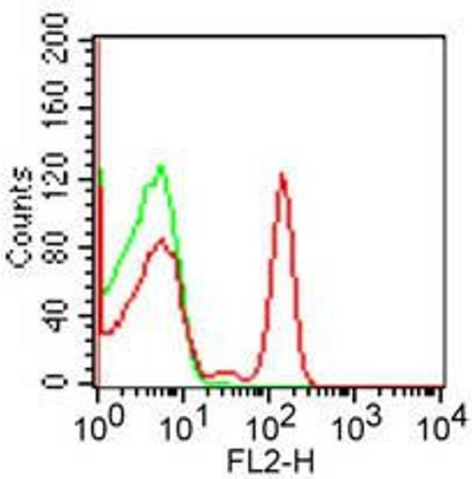
Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

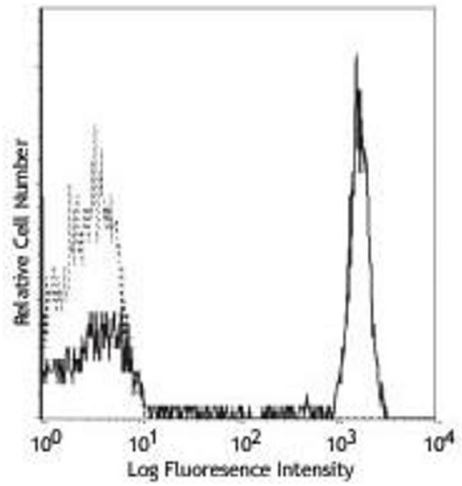
Storage Comment:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiry Date:	6 months

Images



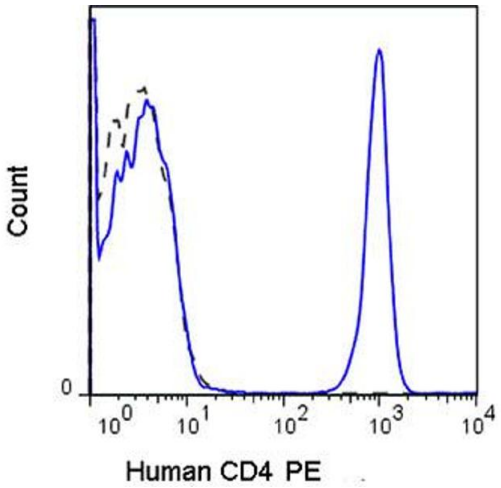
Flow Cytometry

Image 1. Flow Cytometry of Mouse anti-HUMAN CD4 PE Cell Surface Flow Cytometry of Mouse anti-HUMAN CD4 antibody Phycoerythrin conjugated. Cells: 10^6 human PBMC. Propidium iodide negative lymphocyte population gated for analysis. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Phycoerythrin Anti-CD4 mouse secondary antibody using 10 ul (0.1 ug).



Flow Cytometry

Image 2. Flow Cytometry - Mouse anti-HUMAN CD4 PE Flow Cytometry of Mouse anti-HUMAN CD4 antibody Phycoerythrin conjugated. Cells: 10^6 human peripheral blood lymphocytes. Stimulation: none. Antibody: (Gray) PE Mouse isotype control antibody; (BLACK) Phycoerythrin Anti-CD4 mouse secondary antibody using 10 ul (0.1 ug).



Flow Cytometry

Image 3. Flow Cytometry - Mouse anti-HUMAN CD4 PE Flow Cytometry of Mouse anti-HUMAN CD4 antibody Phycoerythrin conjugated. Cells: 10^6 human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 5µL of Mouse IgG1 isotype control PE antibody; (BLUE) Phycoerythrin Anti-CD4 mouse secondary antibody using 5 ul (0.5 ug).