

Datasheet for ABIN6655530
anti-CD4 antibody (APC)



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2 Images

Overview

Quantity:	500 µL
Target:	CD4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD4 antibody is conjugated to APC
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Purpose:	CD4 Allophycocyanin Antibody
Immunogen:	Anti-CD4 Antibody (Monoclonal) was produced by repeated immunizations with CD4 antigen.
Clone:	OKT4
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	Reactivity is observed against human CD4, Cynomolgus, Rhesus, and chimpanzee.
Purification:	Allophycocyanin conjugated CD4 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human 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, FITC anti-human CD4, RPA-T4, APC, T4</p> <p>Background: The OKT4 antibody reacts with human CD4, a 59 kDa protein which acts as a co-receptor for the T cell receptor (TCR) in its interaction with MHC Class II molecules on antigen-presenting cells. The extracellular domain of CD4 binds to the beta-2 domain of MHC Class II, while its cytoplasmic tail provides a binding site for the tyrosine kinase lck, facilitating the signaling cascade that initiates T cell activation. CD4, and co-receptors CCR5 and CXCR4, may also be utilized by HIV-1 to enter T cells. Human CD4 is typically expressed on thymocytes, some mature T cell populations such as Th17 and T regulatory (Treg) cells, as well as on dendritic cells. The OKT4 antibody is widely used as a phenotypic marker for CD4 expression.</p> <p>Gene Name: CD4</p>
Gene ID:	920
NCBI Accession:	NP_000607
UniProt:	P01730
Pathways:	TCR Signaling , Maintenance of Protein Location , CXCR4-mediated Signaling Events

Application Details

Application Notes:	Immunoprecipitation_Dilution: User Optimized Immunohistochemistry_Dilution: User Optimized Flow_Cytometry_Dilution: 5µL/test/1x10e5 to 1x10e8 cells IF_Microscopy_Dilution: User Optimized Western_Blots_Dilution: User Optimized
Comment:	Anti-CD4 is tested in Flow Cytometry and useful for Immunoprecipitation, Immunofluorescence, Immunohistochemistry. 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

Handling

Stabilizer: 0.1 % Gelatin

Preservative: 0.09 % (w/v) Sodium Azide

Preservative: Sodium azide

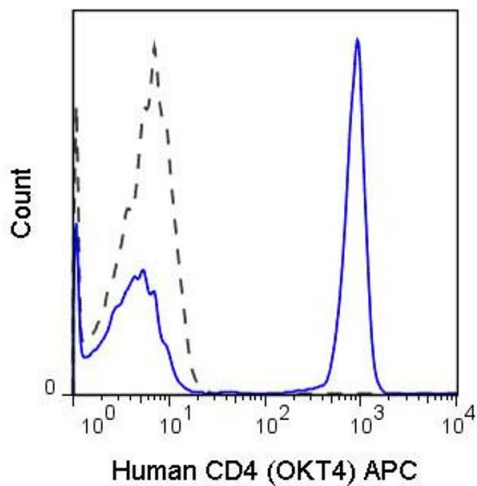
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

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.

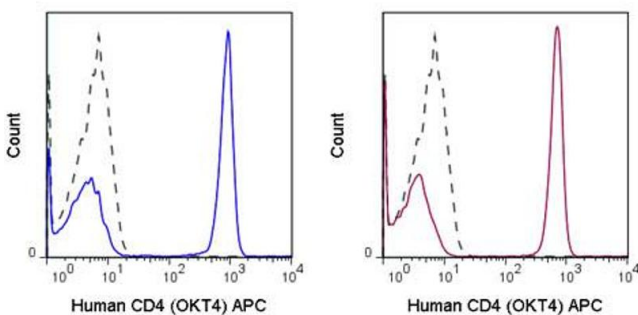
Expiry Date: 6 months

Images



Flow Cytometry

Image 1. Flow Cytometry - Mouse anti-CD4 APC Flow Cytometry of Mouse anti-CD4 Allophycocyanin Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 0.125 µg APC Mouse IgG1 isotype control; (BLUE) Allophycocyanin Anti-CD4 mouse antibody using 5 µL (0.125 µg).



Flow Cytometry

Image 2. Flow Cytometry - Mouse anti-CD4 APC Flow Cytometry of Mouse anti-CD4 Allophycocyanin Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 0.125 µg FITC Mouse IgG1 isotype control; (BLUE) Allophycocyanin Anti-CD4 mouse antibody; (RED) Allophycocyanin Anti-CD4 mouse antibody using 5 µl (0.125 µg).