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Datasheet for ABIN6253117
anti-CD4 antibody (mFluor™450)

2 Images

Overview

Quantity:	100 tests
Target:	CD4
Reactivity:	Human, Rhesus Monkey, Cynomolgus
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD4 antibody is conjugated to mFluor™450
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human peripheral blood T lymphocytes
Clone:	OKT4
Isotype:	IgG2b kappa
Characteristics:	CD4 is a 55kD type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. It is a specific marker for T lymphocytes, monocytes, macrophages, and dendritic cells. Through interaction of MHC-II, CD4 facilitates cell-cell interaction, thymic differentiation, and activation of downstream signaling cascades. HIV infection of T-cells is instigated through binding of HIV to CD4. The OKT4 binds to the D3 domain of CD4 and does not inhibit HIV binding.
Purification:	Purified
Purity:	>95 %
Grade:	GMP Grade

Target Details

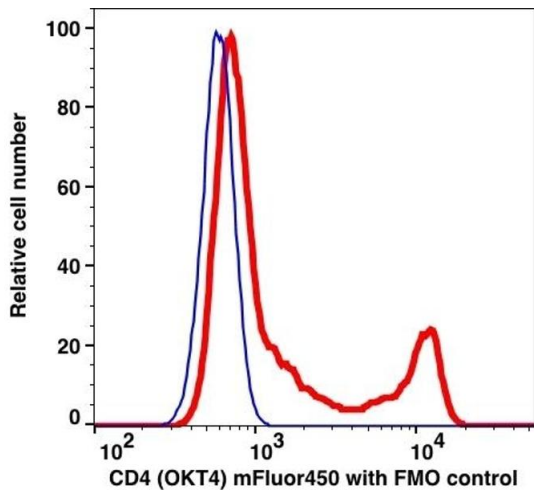
Target:	CD4
Alternative Name:	CD4 (CD4 Products)
Background:	CD4 is a 55kD type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. It is a specific marker for T lymphocytes, monocytes, macrophages, and dendritic cells. Through interaction of MHC-II, CD4 facilitates cell-cell interaction, thymic differentiation, and activation of downstream signaling cascades. HIV infection of T-cells is instigated through binding of HIV to CD4. The OKT4 binds to the D3 domain of CD4 and does not inhibit HIV binding.
NCBI Accession:	NM_000616
UniProt:	P01730
Pathways:	TCR Signaling , Maintenance of Protein Location , CXCR4-mediated Signaling Events

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS pH 7.2, 0.2 % (w/v) BSA, 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



Flow Cytometry

Image 1.

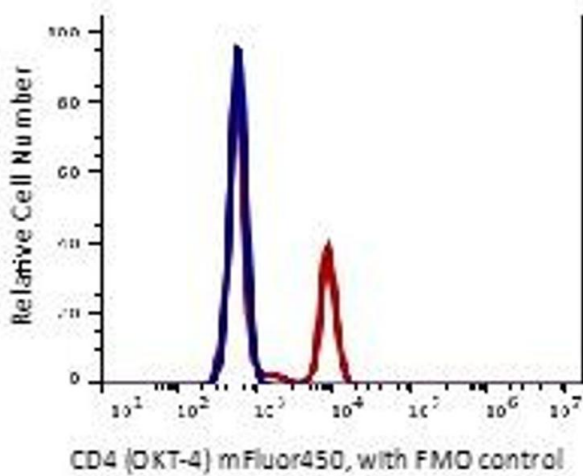


Image 2. Lymphocytes gated blood (RBC lysed) stained with mFluor 450 conjugated anti-human CD4 (clone OKT-4, red histogram). Lymphocytes gated blood (RBC lysed) stained with FL-6 FMO control (blue histogram). The data were generated in Beckman Coulter CytoFLEX S Flow Cytometer and analyzed by using FlowJo software.