

Datasheet for ABIN7319443

CD4 Protein (CD4) (His tag)

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Overview

Quantity:	50 µg
Target:	CD4
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD4/LEU3 Protein (His Tag)
Sequence:	Lys26-Trp390
Characteristics:	Recombinant Human CD4 is produced by our Mammalian expression system and the target gene encoding Lys26-Trp390 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CD4
Alternative Name:	CD4 (CD4 Products)
Background:	Background: CD4 is an approximately 55 kDa type I transmembrane glycoprotein that is expressed predominantly on thymocytes and a subset of mature T lymphocytes. It is a standard phenotype marker for the identification of T cell populations. Mature human CD4

Target Details

consists of a 371 amino acid extracellular region containing four immunoglobulin-like domains, a 22 aa transmembrane segment, and a 40 aa cytoplasmic domain. CD4 is expressed along with CD8 on double positive T cells during their development in the thymus. CD4 binds directly to MHC class II molecules on antigen presenting cells (10). This interaction contributes to the formation of the immunological synapse which is focused around the TCR-MHC class II-antigenic peptide interaction. CD4 also functions as a chemotactic receptor for IL-16 and, in human, as a co-receptor for the gp120 surface glycoprotein of HIV-1.

Synonym: T-cell surface glycoprotein CD4,T-cell surface antigen T4/Leu-3,CD4,Scd4,CD4mut

Molecular Weight:	41.7 kDa
UniProt:	P01730
Pathways:	TCR Signaling , Maintenance of Protein Location , CXCR4-mediated Signaling Events

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.