

Recombinant Human CD4 Molecule, His-tagged(203-317aa)

Cat. No. CD4-102H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD-4 produced in Escherichia Coli encodes amino acids 203-317 and fused to His Tag protein.
Species	Human
Source	E.coli
Protein Length	203-317 a.a.
Description	CD4, a single chain transmembrane glycoprotein, is found on a T cell subset (helper/inducer) representing 45% of peripheral blood lymphocytes. It is also present on 80% of thymocytes and at a lower level on monocytes. It is involved in recognition of antigen presented along with MHC class II by APCs. It serves as receptor for HIV. Antibody to CD4 recognizes T-helper cells required for recognition of class II antigens. It reacts with ~60% of peripheral blood E rosette-positive (E+) cells while showing negligible reactivity with E- cells, monocytes, granulocytes, EBV-transformed B cell lines, and mouse splenocytes.
Physical Appearance	Sterile lyophilized powder.
Formulation	Each mg contains 1X PBS, 0.1% SDS and 1mM DTT.
Application and Suggested Dilutions	• Protein Assay • Antibody Production • Western Blotting

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Storage

Store vial at -20oC to -80oC. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles.

GENE INFORMATION
Gene Name

CD4 CD4 molecule [Homo sapiens]

Synonyms

CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 antigen (p55); T-cell surface antigen T4/Leu-3; CD antigen; CD4 antigen; CD4 receptor

Gene ID

920

mRNA Refseq

NM_000616

Protein Refseq

NP_000607

MIM

186940

UniProt ID

P01730

Chromosome Location

12pter-p12

Pathway

Antigen processing and presentation; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; Primary immunodeficiency; T cell receptor signaling pathway; HIV Infection; Signaling in Immune system

Function

MHC class II protein binding; coreceptor activity; extracellular matrix structural constituent; protein homodimerization activity; protein kinase binding; transmembrane receptor activity; zinc ion binding

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**Crystallographic
structure of the V-set
and C2 domains of
human CD4.**

