Recombinant Human CD4 Molecule (411-459)

Cat. No. CD4-104H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD4produced inEscherichia Coli encoding amino acids 411-459.
Species	Human
Source	E.coli
ProteinLength	411-459 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 filtered liquid.
Formulation	Recombinant Human CD4 protein at 100μg/ml in 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
Application and Suggested Dilutions	•ELISA •Inhibition Assays •Western Blotting

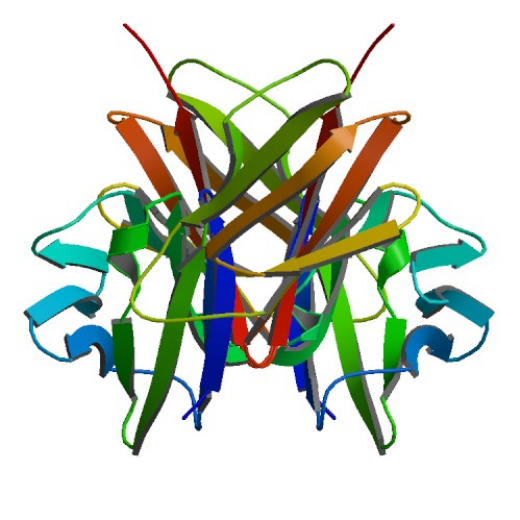
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Characterization	On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 48kDa.
Storage	Store vial at -20℃to -80℃. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	CD4 molecule [Homo sapiens]
Synonyms	Gp55; HLA-2; L3 / T4; Ly-4; T cell antigen T4/LEU3; T4; sCD4; CD4mut; CD4; CD4 antigen; CD4 antigen (p55); CD4 molecule; CD4 receptor; T-cell surface antigen T4/Leu-3; CD4 molecule; 12pter-p12
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940
UniProt ID	P01730
Chromosome Location	12pter-p12
Pathway	Primary immunodeficiency; Antigen processing and presentation; Hematopoietic cell lineage; Cell adhesion molecules (CAMs); T cell receptor signaling pathway
Function	MHC class II protein binding; coreceptor activity; extracellular matrix structural

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	constituent; glycoprotein binding; protein kinase binding; zinc ion binding; protein homodimerization activity; transmembrane receptor activity
Crystallographic structure of the V-set and C2 domains of human CD4.	

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