

Recombinant Human CD4

Cat. No. CD4-26367TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CD4.
Species	Human
Source	Sf9 Cells
ProteinLength	365 amino acids
Description	<p>This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.</p>
Biological activity	Immune reactive in ELISA using monoclonal anti CD4 in gp120 capture ELISA assays.
Form	Liquid
Purity	>90% by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 7.00 Constituents: 0.14% Sodium phosphate, 0.01% Tween, 1.76% Sodium chloride
Storage	Shipped at 4°C. Store at -20°C.
Sequences of amino acids	<p>KKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLTkgPSKLNDRADS RRSLWDQGNFPLIINKLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQGQSLT LTLESPPGSSPSVQCRSPRGKNIQGGKTLVSQLELQDSGTWTCTVLQNQKKVEFK IDIVVLAFAQASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITF DLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGKHLHQ EVNLVVMRATQLQKNLTCEVWGPTSPKMLSLKLENKEAKVSKREKAVWVLNPEAG MWQCLLSDSGQVLLESNIKVLPTW</p>
Sequence Similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Homo sapiens]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; CD4 antigen (p55); T-cell surface glycoprotein CD4;
Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940

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Uniprot ID	P01730
Chromosome Location	12pter-p12
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Arf1 pathway, organism-specific biosystem; Binding and entry of HIV virion, organism-specific biosystem;
Function	MHC class II protein binding; coreceptor activity; enzyme binding; extracellular matrix structural constituent; glycoprotein binding;

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