

Recombinant Human CD4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CD4-2864H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD4 MS Standard C13 and N15-labeled recombinant protein (NP_000607) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various 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.
Molecular Mass	51.1 kDa
AA Sequence	MNRGVFPFRHLLLVLQLALLPAATQGKKVVLGKKGDTVELTCTASQKKSIFHWKNS NQIKILGNQGSFLTGPSKLNDRADSRRLWDQGNFPLIKNLKIEDSDTYICEVEDQ

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KEEVQLLVFGLTANS DTHLLQGQSLTLTLESPPGSSPSVQCRSPRGKNIQGGKTL SV
 SQLELQDSGTWTCTVLQNQKKVEFKIDIVVLA FQKASSIVYKKEGEQVEFSFPLAFTV
 EKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTLP
 QALPQYAGSGNLTAL EAKTGKLGHEVNLVVMRATQLQKNLTCEVWGPTSPKLMLS
 LKLENKEAKVSKREKAVVVLNPEAGMWQCLLSDSGQVLLESNIKVLPTWSTPVQPM
 ALIVLGGVAGLLLFIGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCCPHRFQKTC
 SPITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CD4 CD4 molecule [Homo sapiens (human)]

Official Symbol CD4

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

Gene ID 920

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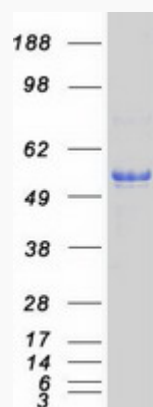
mRNA Refseq [NM_000616](#)

Protein Refseq [NP_000607](#)

MIM [186940](#)

UniProt ID [P01730](#)

SDS-PAGE



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