

Product datasheet for **TP306453M**

CD4 (NM_000616) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human CD4 molecule (CD4), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206453 protein sequence Red =Cloning site Green =Tags(s)

MNRGVPFRHLLLVLQLALLPAATQGKKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLT
KGPSKLNDRADSRRLWDQGNFPLIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQGQSLT
LTLESPPGSSPSVQCRSPRGKNIQGGKTLVSQLELQDSGTWTCTVLQNQKKVEFKIDIVLAFQKASSI
VYKKEGEQVEFSPLAFTVEKLTGSGELWWQAERASSKSWITFDLKNKEVSVKRVTDPKLQMGKKLPL
HLTLPQALPQYAGSGNLTALAEAKTGKLVHVEVNLVVMRATQLQKNLTCEVWGPTSPKLMLSLKLENKEAK
VSKREKAVWVLNPEAGMWQCLLSDSGQVLLESNIKVLPTWSTPVQPMALIVLGGVAGLLLFIGLGIFFCV
RCRHHRRRQAERMSQIKRLLSEKKTCCPHRFQKTCSPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	48.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_000607</u>



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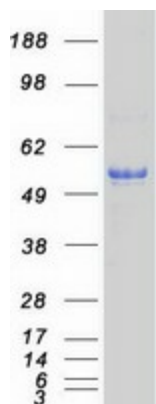
Locus ID:	920
UniProt ID:	P01730 , B4DT49 , A0A4Y5UGE4
RefSeq Size:	3134
Cytogenetics:	12p13.31
RefSeq ORF:	1374
Synonyms:	CD4mut; IMD79; OKT4D

Summary: 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. [provided by RefSeq, May 2020]

Protein Families: Adult stem cells, Druggable Genome, ES Cell Differentiation/IPs, Induced pluripotent stem cells, Transmembrane

Protein Pathways: Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified CD4 protein (Cat# [TP306453]). The protein was produced from HEK293T cells transfected with CD4 cDNA clone (Cat# [RC206453]) using MegaTran 2.0 (Cat# [TT210002]).