

## Product datasheet for PH306453

### CD4 (NM\_000616) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CD4 MS Standard C13 and N15-labeled recombinant protein (NP_000607)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206453
Predicted MW:	51.1 kDa
Protein Sequence:	>RC206453 protein sequence Red=Cloning site Green=Tags(s)  MNRGVPPFRHLLLVLQLALLPAATQGGKVVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLT KGPSKLNDRADSRRLWDQGNFPLIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANS DTHLLQGQSLT LTLESPPGSSPSVQCRSPRGKNIQGGKTL SVS QLELQDSGTWTCTVLQNQKKEFEKIDIVVLA FQKASSI VYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTDPKLQMGKKLPL HLTLPQALPQYAGSGNLTALAEAKTGKLGHEVNLVVMRATQLQKNLTCEVWGPTSPKMLSLKLENKEAK VSKREKAVVWLNPEAGMWQCLLSDSGQVLLSNIKVLPWSTPVPQPMALIVLGGVAGLLLFIGLGIFFCV RCRHHRRRQAERMSQIKRLLSEKKTQCQPHRFQKTCSPI  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000607</u>
RefSeq Size:	3134
RefSeq ORF:	1374
Synonyms:	CD4mut; IMD79; OKT4D



[View online »](#)

Locus ID: 920

UniProt ID: [P01730](#), [B4DT49](#), [A0A4Y5UGE4](#)

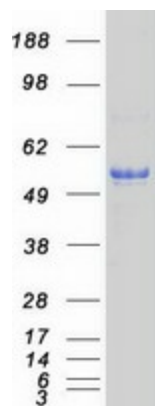
Cytogenetics: 12p13.31

**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]).