Recombinant Rhesus macaque CD4 Protein, His-tagged

Cat. No. CD4-158R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus macaque CD4 protein with His tag was expressed in HEK293.
Species	Rhesus macaque
Source	HEK293
ProteinLength	458
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.
Form	Lyophilized
Molecular Mass	42.3 kDa
AA Sequence	MNRGIPFRHLLLVLQLALLPAVTQGKKVVLGKKGDTVELTCNASQKKNTQFHWKNS

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

	NQIKILGIQGSFLTKGPSKLSDRADSRKSLWDQGCFSMIIKNLKIEDSDTYICEVENKK EEVELLVFGLTANSDTHLLEGQSLTLTLESPPGSSPSVKCRSPGGKNIQGGRTISVP QLERQDSGTWTCTVSQDQKTVEFKIDIVVLAFQKASSTVYKKEGEQVEFSFPLAFTL EKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTLP QALPQYAGSGNLTLALEAKTGKLHQEVNLVVMRATQFQENLTCEVWGPTSPKLTLS LKLENKGATVSKQAKAVWVLNPEAGMWQCLLSDSGQVLLESNIKVVPTWPTPVQP MALIVLGGVAGLLLFTGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCQCPHRFQK TCSPI
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Macaca mulatta (Rhesus monkey)]

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Official Symbol	CD4
Synonyms	CD4; CD4 molecule; T-cell surface glycoprotein CD4; CD4 antigen; T-cell surface antigen T4/Leu-3;
Gene ID	713807
mRNA Refseq	NM_001042662
Protein Refseq	NP_001036127
UniProt ID	P16003

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