

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	MNRGIPFRHLLLVQLALLPAVTQGKKVVLGKKGDTVELTCNASQKKNTQFHWKNS

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NQIKILGIQGSFLTCKGPSKLSRADSRKSLWDQGCFSMIKLNKIEDSDTYICEVENKK
 EEVELLVFGLTANS DTHLLEGQSLTLTLESPPGSSPSVKCRSPGGKNIQGGRTISVP
 QLERQDSGTWTCTVSQDQKTVEFKIDIVVLAFAQKASSTVYKKEGEQVEFSFPLAFTL
 EKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPL
 QALPQYAGSGNLTALAEAKTGKLGHEVNLVVMRATQFQENLTCEVWGPTSPKLTLS
 LKLENKGATVSKQAKAVWVLNPEAGMWQCLLSDSGQVLLESNIKVVPTWPTPVQP
 MALIVLGGVAGLLFTGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCCPHRFQK
 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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