

Recombinant Rhesus macaque CD4 Protein, Fc-tagged

Cat. No. CD4-159R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus macaque CD4 protein with Fc tag was expressed in HEK293.
Species	Rhesus macaque
Source	HEK293
ProteinLength	458
Description	<p>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.</p>
Form	Lyophilized
Molecular Mass	67 kDa
AA Sequence	MNRGIPFRHLLLVLQLALLPAVTQGKKVVLGKKGDTVELTCNASQKKNTQFHWKNS

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NQIKILGIQGSFLTKGPSKLSDRADSRKSLWDQGCFSMIKLNKIEDSDTYICEVENKK
EEVELLVFGLTANS DTHLLEGQSLTLTLESPPGSSPSVKCRSPGGKNIQGGRTISVP
QLERQDSGTWTCTVSQDQKTVEFKIDIVVLA FQKASSTVYKKEGEQVEFSFPLAFTL
EKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTL P
QALPQYAGSGNLTALAEAKTGKLGHEVNLVVMRATQFQENLTCEVWGPTSPKLTLS
LKLENKGATVSKQAKAVVWLNPEAGMWQCLLSDSGQVLLESNIKVVPTWPTPVQP
MALIVLGGVAGLLLFTGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCCQCPHRFQK
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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