

Recombinant Cynomolgus CD4, His tagged

Cat. No. CD4-01H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Cynomolgus CD4 with C-terminal His6 fusion tag was expressed in HEK293.

Species Macaca Fascicularis

Source HEK293

ProteinLength 373

Description

Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages

 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

Form	Lyophilized powder
Molecular Mass	41.5 kDa
AA Sequence	<p>KKVVLGKKGDTVELTCNASQKKNQTFHWKNSNQIKILGIQGSFLTCKGPKLSRDRADS RKSLWDQGCFSMIKLNKIEDSDTYICEVENKKEEVELLVFGLTANSDTHLLEGQSLT LTLESPPGSSPSVKCRSPGGKNIQGGRTLSVPQLERQDSGTWTCTVSQDQKTVEF KIDIVLAFQKASSTVYKKEGEQVEFSFPPAFTLEKLTGSGELWWQAERASSSKSWI TFDLKNKEVSVKRVTDQPKLQMGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGKLNH QEVNLVVMRATQFQENLTCEVWGPTSPKLTLSLKLENKGTTVSKQAKAVVWLNPEA GMWQCLLSDSGQVLLSNIKVVPTWHHHHHHHH</p>
Endotoxin	1EU/ug by LAL
Purity	95% by SDS-PAGE
Applications	ELISA
Storage	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4. 5% trehalose and mannitol are added as protectants before lyophilization.
GENE INFORMATION	
Gene Name	CD4
Official Symbol	CD4
Synonyms	CD4mut,LEU3

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Gene ID	101864991
mRNA Refseq	MF632290.1
Protein Refseq	P79185.1
UniProt ID	P79185
SDS-PAGE	
WB	

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