

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

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Form	Lyophilized powder
Molecular Mass	41.5 kDa
AA Sequence	KKVVLGKKGDTVELTCNASQKKNTQFHWKNSNQIKILGIQGSFLTCKGPSKLSRADSRKSLWDQGCFSMIKLNKIEDSDTYICEVENKKEEVELLVFGLTANS DTHLLEGQSLT LTLESPPGSSPSVKCRSPGGKNIQGGRTLSVPQLERQDSGTWTCTVSQDQKTVEF KIDIVVLAFAQKASSTVYKKEGEQVEFSFPPAFTLEKLTGSGELWWQAERASSSKSWI TFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGKLIHQEVNLVVMRATQFQENLTCEVWGPTSPKLTLSLKLENKGTTVSKQAKAVVVLNPEAGMWQCLLSDSGQVLLSNIKVVPTWHHHHHHHHH
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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