

## Recombinant Cynomolgus CD4, His tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Cynomolgus CD4 with C-terminal His6 fusion tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Macaca Fascicularis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 373                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>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</p> |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b> | 41.5 kDa                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>    | KKVVLGKKGDTVELTCNASQKKNTQFHWKNSNQIKILGIQGSFLTCKGPSKLSRADSRKSLWDQGCFSMIKLNKIEDSDTYICEVENKKEEVELLVFGLTANS DTHLLEGQSLT LTLESPPGSSPSVKCRSPGGKNIQGGRTLSVPQLERQDSGTWTCTVSQDQKTVEF KIDIVVLAFAQKASSTVYKKEGEQVEFSFPPAFTLEKLTGSGELWWQAERASSSKSWI TFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPQALPQYAGSGNLTALAEAKTGKLIHQEVNLVVMRATQFQENLTCEVWGPTSPKLTLSLKLENKGTTVSKQAKAVVVLNPEAGMWQCLLSDSGQVLLESNIKVVPTWHHHHHHHHH |
| <b>Endotoxin</b>      | 1EU/ug by LAL                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>         | 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>   | ELISA                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>        | 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.                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | Lyophilized from sterile PBS, pH 7.4. 5% trehalose and mannitol are added as protectants before lyophilization.                                                                                                                                                                                                                                                                             |

## GENE INFORMATION

|                        |             |
|------------------------|-------------|
| <b>Gene Name</b>       | CD4         |
| <b>Official Symbol</b> | CD4         |
| <b>Synonyms</b>        | 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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