

Recombinant Mouse CD4 antigen Protein, Tag Free

Cat. No. Cd4-224M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse CD4 protein (P06332-1) (Lys 27-Thr 394) without tag was expressed in HEK293.

Species Mouse

Source HEK293

Protein Length 27-394aa

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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Tag	Non
Molecular Mass	41.6 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.
GENE INFORMATION	
Gene Name	Cd4 CD4 antigen [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd4
Synonyms	CD4; CD4 antigen; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; T-cell differentiation antigen L3T4; T-cell surface glycoprotein CD4 precursor (T-cell surface antigen T4/Leu-3) (T-cell differentiation antigen L3T4); L3T4; Ly-4;
Gene ID	12504
mRNA Refseq	NM_013488

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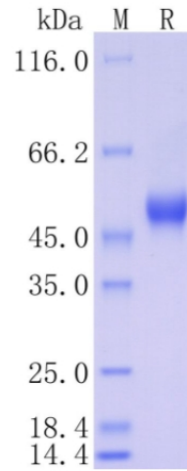
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Protein Refseq NP_038516

UniProt ID P06332

Protein on SDS-PAGE under reducing (R) condition.



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