

Product datasheet for TP526754

Cd4 (NM_013488) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse CD4 antigen (Cd4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226754 representing NM_013488 Red =Cloning site Green =Tags(s)
	<p>MCRAISLRLLLLLLLLQLSQQLLAVTQGKTLVLGKEGESAEPCSSQKKITVFTWKFSDQRKILGQHGGKV LIRGGSPSQFDRFDSKKGAWKGSFPLIINKLMEDSQTICLENRKEEVELWVFKVTFSPGTSLLQGQ SLTLTLDNSKVSNPLTECKHKKGKVVSGSKVLSMSNLRVQDSDFWNCTVTLTDQKKNWFGMTLSVLGFQS TAITAYKSEGESAEFSFPLNFAEENGWGELMWKAEKDSFFQPWISFSIKNKEVSVQKSTKDLKLQKQKQ PLTLKIPQVSLQFAGSGNLTLDKGTLHQEVNLVVMKVAQLNNTLTCEVMGPTSPKMRLTLKQENQEAR VSEEQKVQVAPETGLWQCLLSEGDKVKMDSRIQVLSRGVNQTVFLACVLGGSGFGLGFLGLCILCCVR CRHQQRQAARMSQIKRLLSEKKTCCPHRMQKSHNLI</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	51.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_038516
Locus ID:	12504



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UniProt ID: [P06332](#), [Q3TSV7](#)

RefSeq Size: 3095

Cytogenetics: 6 59.17 cM

RefSeq ORF: 1371

Synonyms: L3T4; Ly-4

Summary: 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.
[UniProtKB/Swiss-Prot Function]