

CD4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72904
Synonyms:	T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; CD4
Species:	Mouse
Source:	HEK293
Accession:	NP_038516.1 (K27-T394)
Gene ID:	12504
Molecular Weight:	43-60kDa

PROPERTIES

AA Sequence	<p> K T L V L G K E G E S A E L P C E S S Q K K I T V F T W K F S D Q R K I L G Q H G K G V L I R G G S P S Q F D R F D S K K G A W E K G S F P L I I N K L K M E D S Q T Y I C E L E N R K E E V E L W V F K V T F S P G T S L L Q G Q S L T L T L D S N S K V S N P L T E C K H K K G K V V S G S K V L S M S N L R V Q D S D F W N C T V T L D Q K K N W F G M T L S V L G F Q S T A I T A Y K S E G E S A E F S F P L N F A E E N G W G E L M W K A E K D S F F Q P W I S F S I K N K E V S V Q K S T K D L K L Q L K E T L P L T L K I P Q V S L Q F A G S G N L T L T L D K G T L H Q E V N L V V M K V A Q L N N T L T C E V M G P T S P K M R L T L K Q E N Q E A R V S E E Q K V V Q V V A P E T G L W Q C L L S E G D K V K M D S R I Q V L S R G V N Q T </p>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of NIH3T3 mouse embryonic fibroblast cells. The ED50 this effect is 2.816 µg/mL, corresponding to a specific activity is 355.114 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CD4, a key glycoprotein involved in immune responses, is predicted to perform various functions, including interleukin-16 binding activity, interleukin-16 receptor activity, and protein homodimerization activity. Playing a critical role in helper T cell enhancement of the adaptive immune response, CD4 acts upstream of processes such as the defense response to Gram-negative bacteria, positive regulation of calcium-mediated signaling, and positive regulation of peptidyl-tyrosine phosphorylation. Positioned in the endoplasmic reticulum, on the external side of the plasma membrane, and within membrane rafts, CD4 exhibits biased expression in different tissues, particularly evident in the thymus with an expression level of RPKM 167.0, and the spleen with RPKM 15.0, underscoring its significance in immune function and its potential involvement in immunodeficiency 79.

Caution: Product has not been fully validated for medical applications. For research use only.

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