

## CD4 Protein, Mouse (Biotinylated, HEK293, His)

<b>Cat. No.:</b>	HY-P77517
<b>Synonyms:</b>	T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; CD4
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_038516.1 (K27-T394)
<b>Gene ID:</b>	12504
<b>Molecular Weight:</b>	Approximately 51.52 kDa.

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Biological Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of NIH-3T3 mouse embryonic fibroblast cells. The ED <sub>50</sub> this effect is 2.109 µg/ml, corresponding to a specific activity is 474.16 units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS or 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**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.

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

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