

## CD2 Protein, Canine (HEK293, His)

<b>Cat. No.:</b>	HY-P74324
<b>Synonyms:</b>	T-cell surface antigen CD2; LFA-2; CD2; SRBC
<b>Species:</b>	Canine
<b>Source:</b>	HEK293
<b>Accession:</b>	XP_849219.1 (E22-D204)
<b>Gene ID:</b>	607448
<b>Molecular Weight:</b>	Approximately 35-45 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> E V L E T K L V W G   A L G H D F D L D S   A G F Q M N A K I D   H I R W E K G K T K V A E L K T G I L K   D T H G K Y N I S T   N G F L K I K H L M   M N D S D I Y K V A I Y D K D G K S V L   R R N Y Q L K I Q E   K V S T P K I L W S   C G N Q S L T C E I T S G T D P T L M L   Y V N Q T M I K N L   L N M T I V Q W N W   T S Q Q E M T V S C T A K N E V S Q K R   E E K I I N C S E K   G L D           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, 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

<b>Background</b>	<p>CD2 is a cell surface glycoprotein that plays a crucial role in mediating adhesion between T-cells and various cell types through interactions with lymphocyte function-associated antigen CD58 (LFA-3) and CD48/BCM1. Beyond its adhesive function, CD2 is implicated in triggering T-cell responses, with its cytoplasmic domain playing a role in signaling pathways. The protein interacts with CD48, CD58 (LFA-3), CD2AP, and PSTPIP1, contributing to a complex network of molecular interactions. Additionally, the interaction between CD2 and FCGR3A modulates NK cell activation and cytotoxicity, highlighting its diverse involvement in immune cell functions<sup>[1][2][3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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