

## CD2 Protein, Canine (HEK293, Fc)

Cat. No.:	HY-P74325
Synonyms:	T-cell surface antigen CD2; LFA-2; CD2; SRBC
Species:	Canine
Source:	HEK293
Accession:	XP_849219.1 (E22-G204)
Gene ID:	607448
Molecular Weight:	Approximately 64.4 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 <sub>2</sub> O.
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	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> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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