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## Datasheet for ABIN7194720 **CD2 Protein (CD2) (His tag)**

### Overview

Quantity:	100 µg
Target:	CD2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human CD2 Protein (His Tag)(Active)
Sequence:	Met 1-Asp 209
Characteristics:	A DNA sequence encoding the human CD2 (NP_001758.2) extracellular domain (Met 1-Asp 209) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human CD2-His at 10 µg/ml (100 µl/well) can bind human CD58-Fc, The EC50 of human CD58-Fc is 0.04-0.1 µg/ml.

### Target Details

Target:	CD2
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## Target Details

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Alternative Name: [CD2 \(CD2 Products\)](#)

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**Background:** Background: T-cell surface antigen CD2, also known as T-cell surface antigen T11/Leu-5, and SRBC, is a single-pass type I membrane protein. It contains one Ig-like C2-type domain and one Ig-like V-type domain. CD2 is a cell adhesion molecule expressed on T cells and is recognized as a target for CD48 (rats) and CD58 (humans). CD2 has been shown to set quantitative thresholds in T cell activation both in vivo and in vitro. Further, intracellular CD2 signaling pathways and networks are being discovered by the identification of several cytosolic tail binding proteins. CD2 interacts with lymphocyte function-associated antigen (LFA-3) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T-cells, the cytoplasmic domain of CD2 is implicated in the signaling function. The complex of CD2 and CD58 also plays an important role in enhancing the adhesion of T lymphocytes to target cells, and promoting hyperplasia and activation of T lymphocytes. As a cell surface glycoprotein, CD2 expressed on most human T cells and natural killer (NK) cells and plays an important role in mediating cell adhesion in both T-lymphocytes and in signal transduction. **Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy**

Synonym: T-cell surface antigen CD2; Erythrocyte receptor; LFA-2; LFA-3 receptor; Rosette receptor; T-cell surface antigen T11/Leu-5; SRBC; T11

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**Molecular Weight:** 22.7 kDa

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**NCBI Accession:** [NP\\_001758](#)

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## Application Details

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Lyophilized

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**Reconstitution:** Please refer to the printed manual for detailed information.

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**Buffer:** Lyophilized from sterile PBS, pH 7.4

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**Storage:** 4 °C, -20 °C, -80 °C

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**Storage Comment:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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