

[Go to Product page](#)

Datasheet for ABIN7534345 **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:	Active Recombinant Human CD2 Protein
Sequence:	KEITNALETW GALGQDINLD IPSFQMSDDI DDIKWEKTSK KKKIAQFRKE KETFKEKDTY KLFKNGTLKI KHLKTDDQDI YKVSİYDTKG KNVLEKIFDL KIQERVSKPK ISWTCINTTL TCEVMNGTDP ELNLYQDGKH LKLSQRVITH KWTTLSLAKF KCTAGNKVSK ESSVEPVSCP EKGLD
Specificity:	Lys25-Asp209
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human CD2 at 2 µg/mL (100 µL/well) can bind Human CD58 with a linear range of 1.22-34.4 ng/mL.

Target Details

Target:	CD2
Alternative Name:	CD2 (CD2 Products)
Background:	<p>Description: 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). 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.</p> <p>Name: CD2,LFA-2,SRBC,T11</p>
Gene ID:	914
UniProt:	P06729

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>