

CD2 Protein, Human (HEK293, His)

Cat. No.:	HY-P7882
Synonyms:	rHuT-cell surface antigen CD2/LFA-3 receptor, His; T-cell surface antigen CD2; Erythrocyte receptor; LFA-2; LFA-3 receptor; Rosette receptor; T-cell surface antigen T11/Leu-5
Species:	Human
Source:	HEK293
Accession:	P06729 (K25-D209)
Gene ID:	914
Molecular Weight:	Approximately 34.0 kDa

PROPERTIES

AA Sequence	<div> <div>K E I T N A L E T W</div> <div>K K K I A Q F R K E</div> <div>Y K V S I Y D T K G</div> <div>T C E V M N G T D P</div> <div>K C T A G N K V S K</div> </div> <div> <div>G A L G Q D I N L D</div> <div>K E T F K E K D T Y</div> <div>K N V L E K I F D L</div> <div>E L N L Y Q D G K H</div> <div>E S S V E P V S C P</div> </div> <div> <div>I P S F Q M S D D I</div> <div>K L F K N G T L K I</div> <div>K I Q E R V S K P K</div> <div>L K L S Q R V I T H</div> <div>E K G L D</div> </div> <div> <div>D D I K W E K T S D</div> <div>K H L K T D D Q D I</div> <div>I S W T C I N T T L</div> <div>K W T T S L S A K F</div> </div>
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DESCRIPTION

Background	<p>The human CD2 molecule is a transmembrane cell surface glycoprotein found on virtually all T cells, thymocytes, and NK cells. CD2 promotes the physical interaction of T-NK lineage cells with antigen-presenting cells (APCs), stromal elements, and a variety of target cells bearing the ubiquitously expressed CD2 ligand, CD58. In the case of T cells, CD2 fosters the initial stages of cell contact even prior to T cell receptor (TCR) recognition of a peptide antigen bound to a major histocompatibility complex (MHC) molecule (pMHC). Thus, unlike with integrin-based adhesion such as that mediated by CD11a/CD18 (LFA-1), CD2 adhesion function is independent of TCR triggering^[1].</p>
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REFERENCES

[1]. Wang JH, et, al. Structure of a heterophilic adhesion complex between the human CD2 and CD58 (LFA-3) counterreceptors. Cell. 1999 Jun 11;97(6):791-803.

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

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