Recombinant Human CD2, His-tagged

Cat. No. CD2-7096H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	25-209aa
Description	CD2, also known as T-cell surface antigen T11/Leu-5, is a cell adhesion molecule found on the surface of T cells and natural killer (NK) cells. It interacts with other adhesion molecules, such as lymphocyte function-associated antigen-3 (LFA-3/CD58) in humans, or CD48 in rodents, which are expressed on the surfaces of other cells. In addition to its adhesive properties, CD2 also acts as a co-stimulatory molecule on T and NK cells. CD2 is a specific marker for T cells and NK cells, and can therefore be used in immunohistochemistry to identify the presence of such cells in tissue sections. The great majority of T cell lymphomas and leukaemias also express CD2, making it possible to use the presence of the antigen to distinguish these conditions from B cell neoplasms.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	23.8 kDa (209aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKEITNA LETWGALGQD INLDIPSFQM

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	SDDIDDIKWE KTSDKKKIAQ FRKEKETFKE KDTYKLFKNGTLKIKHLKTD DQDIYKVSIY DTKGKNVLEK IFDLKIQERV SKPKISWTCI NTTLTCEVMN GTDPELNLYQ DGKHLKLSQR VITHKWTTSLSAKFKCTAGN KVSKESSVEP VSCPEKGLD
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	CD2 CD2 molecule [Homo sapiens]
Official Symbol	CD2
Synonyms	CD2; CD2 molecule; CD2 antigen (p50), sheep red blood cell receptor , SRBC; T-cell surface antigen CD2; LFA-3 receptor; rosette receptor; erythrocyte receptor; lymphocyte-function antigen-2; T-cell surface antigen T11/Leu-5; CD2 antigen (p50), sheep red blood cell receptor; T11; SRBC; LFA-2; FLJ46032;
Gene ID	914
mRNA Refseq	NM_001767
Protein Refseq	NP_001758

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MIM	186990
UniProt ID	P06729
Chromosome Location	1p13
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Hemostasis, organism-specific biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	eukaryotic cell surface binding; protein binding; protein homodimerization activity; receptor activity; receptor activity;

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