

Active Recombinant Human CD2 Protein, Fc Tagged, Low endotoxin

Cat. No. CD2-11217H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD2, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Lys 25-Asp 209 (Accession # AAH33583). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Lys 25
Species	Human
Source	HEK293
ProteinLength	25-209 aa
Description	T-cell surface antigen CD2 is also known as Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor, T-cell surface antigen T11/Leu-5 and SRBC, is a single-pass type I membrane protein found on the surface of T cells and natural killer (NK) cells. CD2 is a member of the immunoglobulin superfamily. CD2/SRBC contains 1 Ig-like C2-type (immunoglobulin-like) domain and 1 Ig-like V-type (immunoglobulin-like) domain. CD2/SRBC 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.
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl,

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	pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human CD58, His Tag at 10 µg/mL (100 µL/well) can bind Human CD2, Fc Tag with a linear range of 5-156 ng/mL.
Molecular Mass	The protein has a calculated MW of 47.7 kDa. The protein migrates as 55-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD2 CD2 molecule [Homo sapiens (human)]
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;

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Gene ID	914
mRNA Refseq	NM_001767
Protein Refseq	NP_001758
MIM	186990
UniProt ID	P06729

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