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# Recombinant Rat CD2 protein (rFc Tag)

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Catalog Number: Eg9783

## Basic Information

**Species:**
Rat

**Purity:**
>90 %, SDS-PAGE

**Tag:**
rFc Tag

## Technical Specifications

**Purity:**
>90 %, SDS-PAGE

**Endotoxin Level:**
<0.1 EU/μg protein, LAL method

**Source:**
HEK293-derived Rat CD2 protein Arg23-Pro202 (Accession# P08921) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**
497761

**Accession:**
P08921

**Predicted Molecular Mass:**
46.1 kDa

**SDS-PAGE:**
50-65 kDa, reducing (R) conditions

**Formulation:**
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

**Shipping:**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD2 (also known as LFA-2, T-cell surface antigen T11/Leu-5, LFA-3 receptor, E-rosette receptor) is a member of the immunoglobulin superfamily. It is a transmembrane glycoprotein present on T cells, NK cells, thymocytes and dendritic cells. CD2 functions as an adhesion molecule, binding with lymphocyte function-associated antigen (LFA-3/CD58) in humans. It has also been reported to interact with CD48 and CD59. CD2 plays important roles in cell adhesion between T-cells/NK cells and other cell types, T-cell activation, NK-cell activation, and thymocyte development.

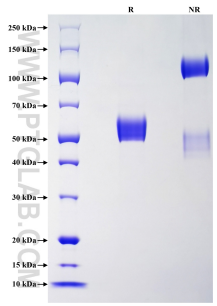
## References


1. P A van der Merwe, et al. (1994) Biochemistry. 33(33):10149-60.
2. S J Davis, et al. (1996) Immunol Today. 17(4):177-87.
3. A L Wilkins, et al. (2003) Curr Protein Pept Sci. 4(5):367-73.
4. Christian Binder, et al. (2020) Front Immunol. 11:1090.


## Synonyms

LFA-2, LFA-3 receptor, OX-34 antigen, T-cell surface antigen CD2, T-cell surface antigen T11/Leu-5

## Selected Validation Data




Purity of Recombinant Rat CD2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.