

For Research Use Only

# Recombinant Rat CD63 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3216

## Basic Information

**Species:**  
Rat

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

**Tag:**  
rFc Tag

## Technical Specifications

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

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

**Source:**  
HEK293-derived Rat CD63 protein Arg108-Val203 (Accession# P28648) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
29186

**Accession:**  
P28648

**Predicted Molecular Mass:**  
37.2 kDa

**SDS-PAGE:**  
40-50 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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

Cluster of differentiation antigen 63 (CD63) is a member of transmembrane-4-superfamily of tetraspanin proteins and is a highly N-glycosylated type III lysosomal membrane protein. CD63 plays important roles in membrane transport, fusion, and protein kinase signaling. CD63 is a widely recognized extracellular vesicle (EV) marker that contributes to EV secretion from cells. CD63 is ubiquitously expressed and often considered to be a late endosomal, lysosomal, as well as an exosomal marker protein. CD63 is known to regulate malignancy of various types of cancers such as melanoma and breast cancer and serves as a potential marker for cancer detection.

## References

1. Song Z. et al. (2020) Molecules. 25(23):5585.
2. Dey S. et al. (2023) Adv Biol (Weinh). 7(7):e2300078.
3. Yanatori I. et al. (2021) Blood. 138(16):1490-1503.
4. Koh HM. et al. (2020) In Vivo. 34(5):2209-2215.

## Synonyms

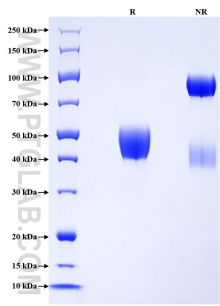
CD63 antigen, Mast cell antigen AD1

For technical support and original validation data for this product please contact

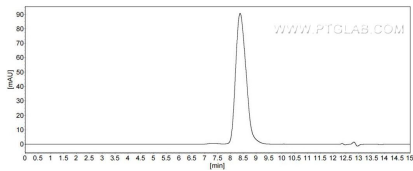
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W: ptglab.com

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Selected Validation Data



Purity of Recombinant Rat CD63 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.



The purity of Rat CD63 was greater than 90% as determined by SEC-HPLC.