

For Research Use Only

# Recombinant Mouse CD44 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3159

## Basic Information

**Species:**  
Mouse

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

**Tag:**  
rFc Tag

## Technical Specifications

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

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse CD44 protein Gln25-Thr224 (Accession# A2APM2) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
12505

**Accession:**  
A2APM2

**Predicted Molecular Mass:**  
48.2 kDa

**SDS-PAGE:**  
60-75 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m 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

CD44 is a cell surface adhesion receptor that plays a crucial role in various biological processes, including cell-cell interactions, cell-matrix adhesion, cell migration, and signaling. It serves as a receptor for hyaluronan (HA) and has been implicated in several other ligand interactions, including osteopontin (OPN), collagens, and matrix metalloproteinases. CD44 is highly expressed in many cancers and is known to regulate metastasis by interacting with extracellular matrix ligands, promoting migration and invasion processes involved in metastases. It also has been identified as a marker for cancer stem cells and immune cells.

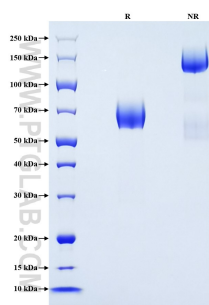
## References

- 1.Senbanjo LT. et al. (2017). Front Cell Dev Biol. 5:18.
- 2.Xu Y. et al. (2024). MedComm (2020). 5(6):e554.
- 3.Xu H. et al. (2020). Exp Hematol Oncol. 9(1):36.

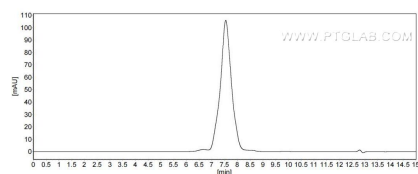
## Synonyms

CD44 antigen, CDw44, CSPG8, ECMR III, ECMR-III

## Selected Validation Data



Purity of Recombinant Mouse CD44 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 Mouse CD44 was greater than 90% as determined by SEC-HPLC.

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

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