

For Research Use Only

# Recombinant Rat NCAM-1/CD56 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg3243

## Basic Information

**Species:**  
Rat

**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 Rat NCAM-1 protein Leu20-Thr721 (Accession# P13596-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
24586

**Accession:**  
P13596-1

**Predicted Molecular Mass:**  
104.0 kDa

**SDS-PAGE:**  
120-130 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

NCAM-1 (Neural Cell Adhesion Molecule 1), also known as CD56, is a cell-surface glycoprotein that is a member of the immunoglobulin superfamily and expresses three isoforms at 120, 140, and 180 kDa. NCAM-1 plays a role in cell development and differentiation as well as in immune surveillance, and is involved in the regulation of cellular adhesion and survival, intracellular signaling, cytoskeletal dynamics, neurological development, synaptic plasticity, learning and memory, and immune surveillance. It plays a role in signal transduction by interacting with fibroblast growth factor receptor, N-calmodulin and activating the signaling cascade of FAK, MAPK, and PI3K. Abnormal NCAM-1 expression is seen in a range of hematological malignancies including multiple myeloma and leukemias, and solid tumors, such as lung cancer, ovarian cancer, and neuroblastoma.

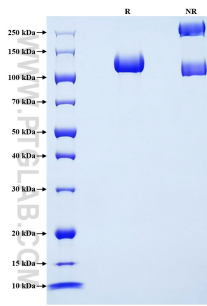
## References

1. Chu CS, et al. (2018) Psychiatry Investig.15(7):727-732.
2. Sasca D, et al. (2019) Blood. 133(21):2305-2319.

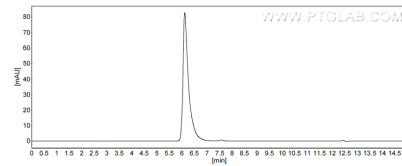
## Synonyms

NCAM1/CD56, CD56, Ncam, Ncam1, N-CAM-1

## Selected Validation Data



Purity of Recombinant Rat NCAM-1 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 NCAM-1/CD56 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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