

# Recombinant Human NCAM-1/CD56 Protein

Catalog No.: RP03107 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4684	P13591-2

### Tags

C-His

### Synonyms

N-CAM-1; NCAM-1; NCAM1; CD56; NCAM; MSK39

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

Calculated MW	Observed MW
78.23 kDa	100-140 kDa

### Endotoxin

< 0.01 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

Neural Cell Adhesion Molecule 1 (NCAM-1), a multifunctional member of the immunoglobulin superfamily, is expressed on the surface of neurons, glia, skeletal muscle, and natural killer cells. NCAM-1 has been implicated as having a role in cell-cell adhesion, involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance.

## Basic Information

### Description

Recombinant Human NCAM-1/CD56 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Gly718) of Human NCAM-1/CD56 (Accession #NP\_851996.2) fused with a 6×His tag at the C-terminus.

### Bio-Activity

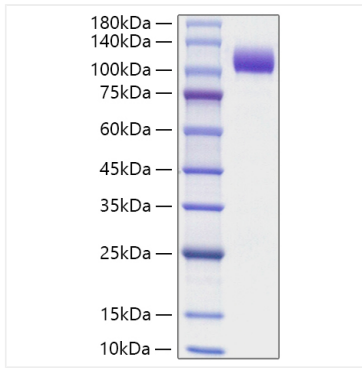
Measured by the ability of the immobilized protein to support the adhesion of Neuro-2A Human neuroblastoma cells. The ED50 for this effect is 1.8-7.2 μg/mL.

### Storage

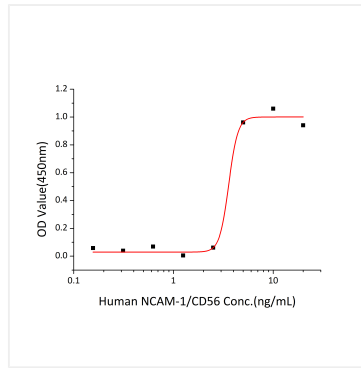
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human NCAM-1/CD56 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-140 kDa.



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