

For Research Use Only

Recombinant Mouse NCAM-1/CD56 protein (His Tag)



Catalog Number: Eg0652

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse NCAM-1 protein Leu20-Thr711 (Accession# P13595-1) with a His tag at the C-terminus.

GeneID:

17967

Accession:

P13595-1

Predicted Molecular Mass:

80.5 kDa

SDS-PAGE:

80-110 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ 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

Neural cell adhesion molecule 1 (NCAM1, also known as CD56) is a cell adhesion glycoprotein of the immunoglobulin (Ig) superfamily. It is a multifunction protein involved in synaptic plasticity, neurodevelopment, and neurogenesis. NCAM1 is expressed on human neurons, glial cells, skeletal muscle cells, NK cells and a subset of T cells, and the expression is observed in a wide variety of human tumors, including myeloma, myeloid leukemia, neuroendocrine tumors, Wilms' tumor, neuroblastoma, and NK/T cell lymphomas. Three major isoforms of NCAM1, with molecular masses of 120, 140, and 180 kDa, are generated by alternative splicing of mRNA. The glycosylphosphatidylinositol (GPI)-anchored NCAM120 and the transmembrane NCAM140 and NCAM180 consist of five Ig-like domains and two fibronectin-type III repeats (FNIII). All three forms can be posttranslationally modified by addition of polysialic acid (PSA). Several other isoforms have also been described.

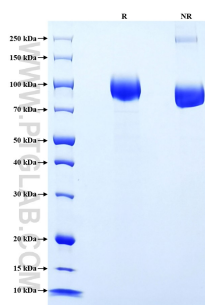
References

1. Maria-Isabel T.et al. (1998).J Virol.72(9):7181-7190.
2. Ralf K.et al. (2004). Nat Rev Neurosci.5(3):195-208.
3. E Phimister.et al. (1991).J Clin Pathol.44(7):580-585.
4. Adam N.et al. (2017). ImmunolLett.185:93-97.
5. Markus A.et al. (2019). Acta Neurol Scand.139(5):422-427.

Synonyms

CD56, Ncam1, E NCAM, Ncam, NCAM 1

Selected Validation Data



Purity of Recombinant Mouse 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.

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

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