For Research Use Only

Recombinant Mouse Nov protein (rFc Tag)

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Catalog Number: Eg2856

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse Nov protein Ser26-Ile354 (Accession# Q64299) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
18133

Accession:
Q64299

Predicted Molecular Mass:
61.6 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

CCN family member 3 (CCN3), also known as Nephroblastoma overexpressed (NOV) protein, is a member of the CCN protein family. CCN3 is predominantly expressed in the cytoplasm, nucleus, and extracellular space. As a subset of extracellular matrix proteins, it can directly bind to the integrin receptor family on the cell surface and participate in signal transduction between the cell surface and the extracellular matrix structure. CCN3 exhibits anti-proliferative activity in normal cells and most tumor cells. CCN3 co-localizes with connexin 43 (C×43) in the plasma membrane, and these two proteins physically interact to inhibit cell growth. CCN3 can induce myofibroblast differentiation through the Notch pathway. CCN can promote adhesion of endothelial cells, vascular smooth muscle cells, and fibroblasts through heparan sulfate proteoglycans (HSPG).

References

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2.Yin, Hui et al. Journal of cell communication and signaling vol. 17,4 (2023): 1219-1227.
3.Bleau, A M et al. Journal of cellular biochemistry vol. 101,6 (2007): 1475-91.
4.Fu, Christine T et al. The Journal of biological chemistry vol. 279,35 (2004): 36943-50.
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6.Kim, Hyungjoo et al. BMB reports vol. 51,10 (2018): 486-492.

Synonyms

Selected Validation Data