10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CCN3 / NOV Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11958

Specification

CCN3 / NOV Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	P48745
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39kDa KDa**

CCN3 / NOV Antibody (C-Terminus) - Additional Information

Gene ID 4856

Other Names
Protein NOV homolog, NovH, CCN family member 3, Insulin-like growth factor-binding protein 9, IBP-9, IGF-binding protein 9, IGFBP-9, Nephroblastoma-overexpressed gene protein homolog, NOV, CCN3, IGFBP9, NOVH

Target/Specificity
synthetic peptide corresponding to C-terminal residues of human NOV protein homolog precursor (NovH) (Nephroblastoma overexpressed gene protein homolog)

Reconstitution & Storage
+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions
CCN3 / NOV Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CCN3 / NOV Antibody (C-Terminus) - Protein Information

Name CCN3 (HGNC:7885)

Synonyms IGFBP9, NOV, NOVH

Function
Immediate-early protein playing a role in various cellular processes including proliferation, adhesion, migration, differentiation and survival (PubMed:15181016, PubMed:15611078, PubMed:12695522, PubMed:21344378, PubMed:12050162). Acts by binding to integrins or membrane receptors such as NOTCH1 (PubMed:<a

href="http://www.uniprot.org/citations/12695522" target="_blank">12695522, PubMed:21344378, PubMed:15611078). Essential regulator of hematopoietic stem and progenitor cell function (PubMed:17463287). Inhibits myogenic differentiation through the activation of Notch-signaling pathway (PubMed:12050162). Inhibits vascular smooth muscle cells proliferation by increasing expression of cell-cycle regulators such as CDKN2B or CDKN1A independently of TGFB1 signaling (PubMed:20139355). Ligand of integrins ITGAV:ITGB3 and ITGA5:ITGB1, acts directly upon endothelial cells to stimulate pro-angiogenic activities and induces angiogenesis. In endothelial cells, supports cell adhesion, induces directed cell migration (chemotaxis) and promotes cell survival (PubMed:12695522). Also plays a role in cutaneous wound healing acting as integrin receptor ligand. Supports skin fibroblast adhesion through ITGA5:ITGB1 and ITGA6:ITGB1 and induces fibroblast chemotaxis through ITGAV:ITGB5. Seems to enhance bFGF-induced DNA synthesis in fibroblasts (PubMed:15611078). Involved in bone regeneration as a negative regulator (By similarity). Enhances the articular chondrocytic phenotype, whereas it repressed the one representing endochondral ossification (PubMed:21871891). Impairs pancreatic beta-cell function, inhibits beta-cell proliferation and insulin secretion (By similarity). Plays a role as negative regulator of endothelial pro-inflammatory activation reducing monocyte adhesion, its anti-inflammatory effects occur secondary to the inhibition of NF-kappaB signaling pathway (PubMed:21063504). Contributes to the control and coordination of inflammatory processes in atherosclerosis (By similarity). Attenuates inflammatory pain through regulation of IL1B- and TNF-induced MMP9, MMP2 and CCL2 expression. Inhibits MMP9 expression through ITGB1 engagement (PubMed:21871891).

Cellular Location
Secreted. Cytoplasm. Cell junction, gap junction. Note=Localizes at the gap junction in presence of GJA1. {ECO:0000250|UniProtKB:Q9QZQ5}

Tissue Location
Expressed in endiothelial cells (at protein level) (PubMed:21063504). Expressed in bone marrow, thymic cells and nephroblastoma. Increased expression in Wilms tumor of the stromal type.

CCN3 / NOV Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CCN3 / NOV Antibody (C-Terminus) - Images

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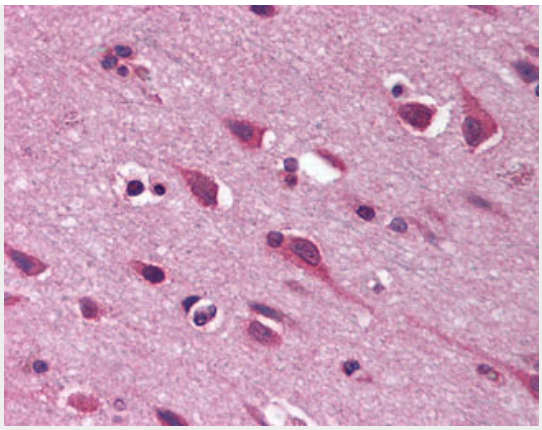

Anti-NOV / CCN3 antibody IHC of human brain, cortex.

CCN3 / NOV Antibody (C-Terminus) - Background

Immediate-early protein likely to play a role in cell growth regulation.

CCN3 / NOV Antibody (C-Terminus) - References

Martinerie C.,et al.Oncogene 9:2729-2732(1994).
Martinerie C.,et al.Oncogene 12:1479-1492(1996).
Jiang D.,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.