

CCN4
Catalog # PVGS1433**Specification**

CCN4 - Product Information

Primary Accession [O95388](#)
Species
Human

Sequence

TALSPAPTTM DFTPAPLEDT SSRPQFCKWP CECPPSPPRC PLGVSLITDG CECCKMCAQQ LGDNCTEAAI
CDPHRGLYCD YSGDRPRYAI GVCAQVVGVG CVLDGVRVNN GQSFQPNCKY NCTCIDGAVG CTPLCLRVRP
PRLWCPHPRR VSIPGHCCEQ WVCEDDAKRP RKTAPRDTGA FDAVGEVEAW HRNCIAYTSP WSPCSTSCGL
GVSTRISNVN AQCWPEQESR LCNLRPCDVD IHTLIKAGKK CLAVYQPEAS MNFTLAGCIS TRSYQPKYCG
VCMENRCCIP YKSKTIDVSF QCPDGLGFSR QVLWINACFC NLSCRNPNDI FADLESYPDF SEIAN

Purity

> 95% as analyzed by SDS-PAGE.

Endotoxin Level

< 0.2 EU/ µg, determined by LAL method.

Formulation

Lyophilized after extensive dialysis against PBS.

Reconstitution

Reconstituted in ddH₂O or PBS at 100 µg/ml.

CCN4 - Additional Information

Gene ID 8840

Other Names

CCN family member 4, WNT1-inducible-signaling pathway protein 1, WISP-1, Wnt-1-induced secreted protein, CCN4 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=12769), WISP1

Target Background

WISP-1, also known as Wnt-1-inducible-signaling pathway protein 1, CCN4 and Wnt-1-induced secreted protein, is a cysteine-rich heparin-binding Glycoprotein belonging to the CCN protein family. It is expressed in many internal organs, such as the lung, kidney and spleen. WISP-1 binds to BMP-2 and enhances mesenchymal cell proliferation and osteoblastic differentiation. , WISP-1 has also been reported to attenuate p53-mediated apoptosis and inhibit TNF-induced cell death, suggesting it may play a role in tumorigenesis.

CCN4 - Protein Information

Name CCN4 ([HGNC:12769](#))

Synonyms WISP1

Function

Downstream regulator in the Wnt/Frizzled-signaling pathway. Associated with cell survival. Attenuates p53-mediated apoptosis in response to DNA damage through activation of AKT kinase. Up-regulates the anti-apoptotic Bcl-X(L) protein. Adheres to skin and melanoma fibroblasts. In vitro binding to skin fibroblasts occurs through the proteoglycans, decorin and biglycan.

Cellular Location

Secreted.

Tissue Location

Expressed in heart, kidney, lung, pancreas, placenta, ovary, small intestine and spleen. Isoform 2 is expressed predominantly in scirrhous gastric carcinoma and, weakly in placenta. Overexpression is associated with several cancers including breast cancer and colon tumors. Isoform 2 is overexpressed in scirrhous gastric carcinoma

CCN4 - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CCN4 - Images