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CCN4

Catalog # PVGS1433

Product Information

Primary Accession	O95388
Species	Human
Sequence	TALSPAPTTM DFTPAPLEDT SSRPQFCKWP CECPPSPPRC PLGVSLITDG CECCKMCAQQ LGDNCTEAAI CDPHRGLYCD YSGDRPRYAI GVCAQVVGVG CVLDGVRYNN GQSFQPNCKY NCTCIDGAVG CTPLCLRVRP PRLWCPHPRR VSIPGHCCEQ WVCEDDAKRP RKTAPRDTGA FDAVGEVEAW HRNCIAYTSP WSPCSTSCGL GVSTRISNVN AQCWPEQESR LCNLRPCDVD IHTLIKAGKK CLAVYQPEAS MNFTLAGCIS TRSYQPKYCG VCMDNRCCIP YKSKTIDVSF QCPDGLGFSR QVLWINACFC NLSCRNPNDI FADLESYPDF SEIAN
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH_2O or PBS at 100 □g/ml.

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 (HGNC: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 intumorigenesis.

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

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