

Rabbit Anti-WISP1/Biotin Conjugated antibody

SL6321R-Bio

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| Product Name | Anti-WISP1/Biotin |
| Chinese Name | 生物素标记的 Wnt1 信号通路蛋白 1 抗体 |
| Alias | CCN 4; CCN4; WISP 1; WISP 1c; WISP 1i; WISP 1tc; WISP1c; WISP1i; WISP1tc; WNT 1 induced secreted protein 1; Wnt 1 induced secreted protein; WNT 1 inducible signaling pathway protein 1; Wnt 1 signaling pathway protein 1; WNT1 induced secreted protein 1; Wnt1 induced secreted protein; WNT1 inducible signaling pathway protein 1; Wnt1 signaling pathway protein 1; WISP1_HUMAN |
| Research Area | Cell biology Signal transduction Stem cells Apoptosis transcriptional regulatory factor Epigenetics |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | (predicted:Human,Mouse,Rat,Rabbit) |
| Applications | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight | 38kDa |
| Form | Lyophilized or Liquid |
| Concentration | 1mg/ml |
| immunogen | KLH conjugated synthetic peptide derived from human WISP1 |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Storage Buffer | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| Product Detail | background: |

his gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. WNT1 is a member of a family of cysteine-rich, glycosylated signaling proteins that mediate diverse developmental processes. The CTGF family members are characterized by four conserved cysteine-rich domains: insulin-like growth factor-binding domain, von Willebrand factor type C module, thrombospondin domain and C-terminal cystine knot-like domain. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. It is expressed at a high level in fibroblast cells, and overexpressed in colon tumors. The encoded protein binds to decorin and biglycan, two members of a family of small leucine-rich proteoglycans present in the extracellular matrix of connective tissue, and possibly prevents the inhibitory activity of decorin and biglycan in tumor cell proliferation. It also attenuates p53-mediated apoptosis in response to DNA damage through activation of the Akt kinase. It is 83% identical to the mouse protein at the amino acid level. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2011].

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.

Subcellular Location:

Secreted.

Tissue Specificity:

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.

Similarity:

Belongs to the CCN family.

Contains 1 CTCK (C-terminal cystine knot-like) domain.

Contains 1 IGF1BP3 N-terminal domain.

Contains 1 TSP type-1 domain. [SIMILARITY] Contains 1 VWFC domain.

Database links:

UniProtKB/Swiss-Prot: O95388.1



SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

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