

Anti-WISP1/CCN4 Antibody
Catalog # ABO11396**Specification****Anti-WISP1/CCN4 Antibody - Product Information**

Application	IHC, WB, ICC
Primary Accession	O95388
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for WNT1-inducible-signaling pathway protein 1(WISP1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-WISP1/CCN4 Antibody - Additional Information

Gene ID 8840

Other Names

WNT1-inducible-signaling pathway protein 1, WISP-1, CCN family member 4, Wnt-1-induced secreted protein, WISP1, CCN4

Calculated MW

40331 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Secreted.

Tissue Specificity

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

Protein Name

WNT1-inducible-signaling pathway protein 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human WISP1(354-367aa ADLESYPDFSEIAN), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the CCN family.

Anti-WISP1/CCN4 Antibody - 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

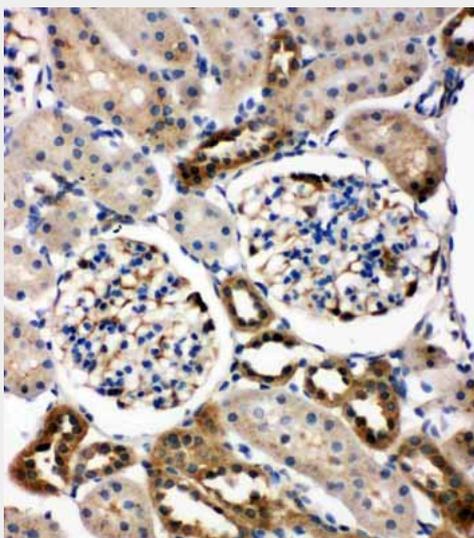
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Anti-WISP1/CCN4 Antibody - Protocols

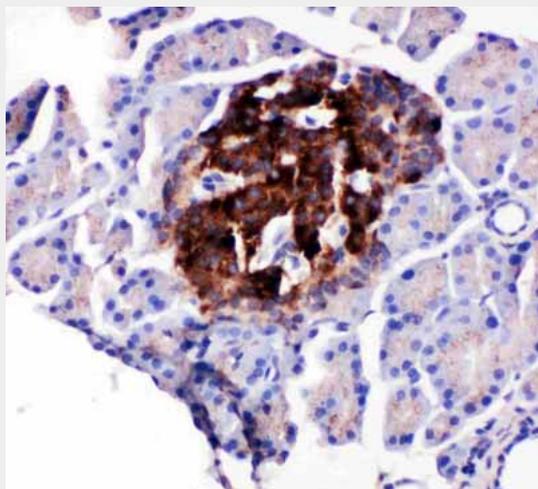
Provided below are standard protocols that you may find useful for product applications.

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

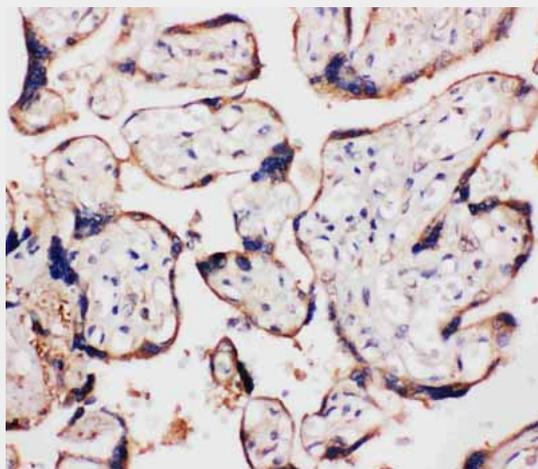
Anti-WISP1/CCN4 Antibody - Images



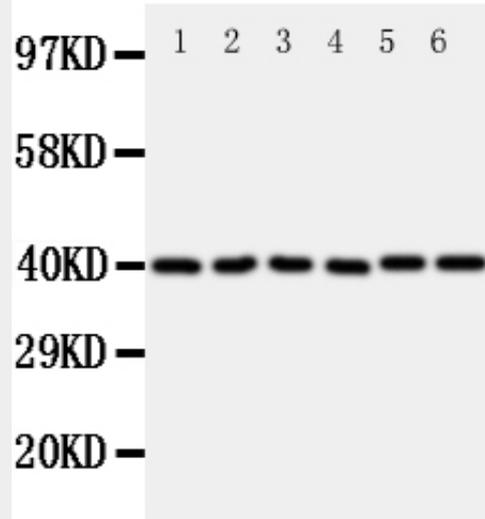
Anti-WISP1 antibody, ABO11396, IHC(P)IHC(P): Rat Kidney Tissue



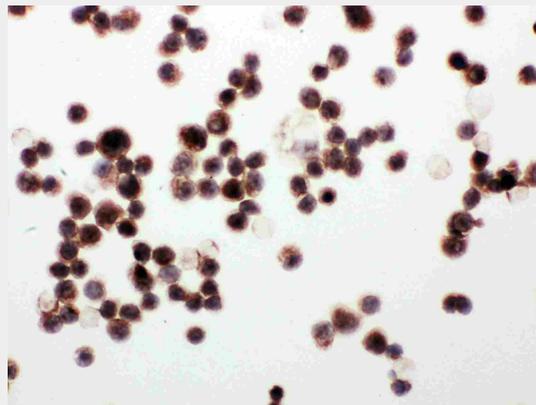
Anti-WISP1 antibody, ABO11396, IHC(P)IHC(P): Rat Pancreas Tissue



Anti-WISP1 antibody, ABO11396, IHC(P)IHC(P): Human Placenta Tissue



Anti-WISP1 antibody, ABO11396, Western blotting All lanes: Anti WISP1 (ABO11396) at 0.5ug/ml
 Lane 1: Rat Heart Tissue Lysate at 50ug
 Lane 2: Rat Kidney Tissue Lysate at 50ug
 Lane 3: Rat Lung Tissue Lysate at 50ug
 Lane 4: A549 Whole Cell Lysate at 40ug
 Lane 5: A431 Whole Cell Lysate at 40ug
 Lane 6: COLO320 Whole Cell Lysate at 40ug
 Predicted bind size: 40KD
 Observed bind size: 40KD



Anti-WISP1 antibody, ABO11396, ICC/IC: MCF-7 Cell

Anti-WISP1/CCN4 Antibody - Background

WISP1(WNT1-Inducible Signaling Pathway Protein 1), also known as CCN4, is a matricellular protein that in humans is encoded by the WISP1 gene. WISP1 is induced by WNT1 and belongs to the CCN family, which includes connective tissue growth factor, cysteine-rich-61, and nephroblastoma overexpressed(Tanaka et al., 2001). By use of radiation hybrid mapping panels, Pennica et al.(1998) mapped the WISP1 to chromosome 8q24.1-q24.3, roughly 4 Mb distal to MYC. Pennica et al.(1998) found that 2 distinct systems demonstrated that WISP induction was associated with expression of WNT1. WISP1 genomic DNA was amplified in colon cancer cell lines and in human colon tumors, and its RNA was overexpressed in 84% of tumors examined compared with patient-matched normal mucosa.