

Anti-WISP1/CCN4 Antibody

Catalog # ABO11396

Product Information

Application	WB, IHC-P, IHC-F, 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.

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
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse, Rat Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Rat, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/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 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.
Source	Eukaryota
Protein Name	WNT1-inducible-signaling pathway protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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.

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.

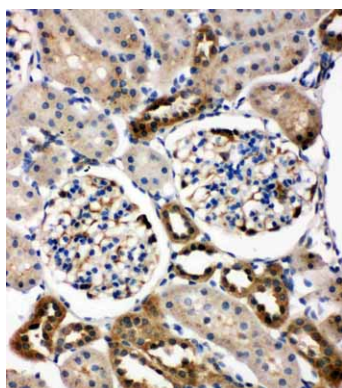
Tissue Location

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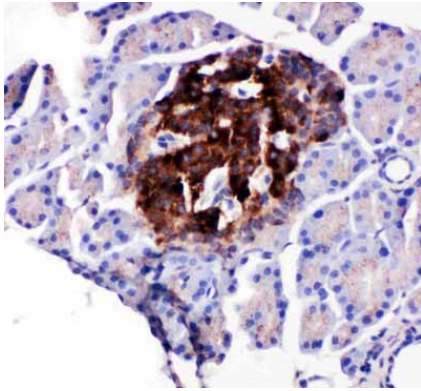
Background

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.

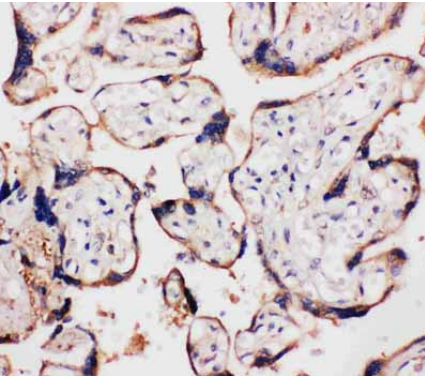
Images



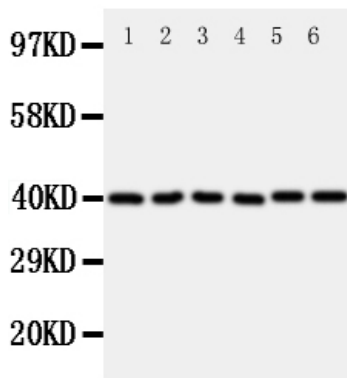
Anti-WISP1 antibody, ABO11396, IHC(P)IHC(P): Rat Kidney Tissue



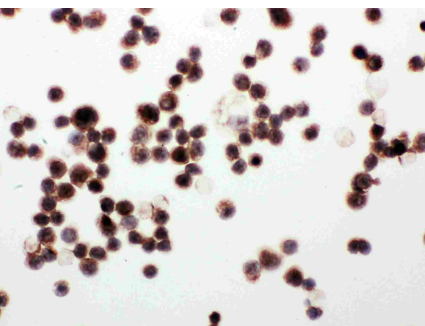
Anti-WISP1 antibody, ABO11396, IHC(P)IHC(P): Rat Pancreas Tissue



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, ICCICC: MCF-7 Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.