

ARG42929
anti-CCN4 / WISP1 antibodyPackage: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes CCN4 / WISP1 |
| Tested Reactivity | Hu, Rat |
| Tested Application | ICC/IF, IHC-Fr, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CCN4 / WISP1 |
| Species | Human |
| Immunogen | Synthetic peptide corresponding to aa. 354-367 of Human CCN4 / WISP1. (ADLESYPDFSEIAN) |
| Conjugation | Un-conjugated |
| Alternate Names | CCN4; WISP-1; WISP1i; WISP1c; CCN family member 4; Wnt-1-induced secreted protein; WNT1-inducible-signaling pathway protein 1; WISP1tc |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------------|
| | ICC/IF | 1:200 - 1:1000 |
| | IHC-Fr | 1:200 - 1:1000 |
| | IHC-P | 1:200 - 1:1000 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | 40 kDa | |

Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA. |
| Preservative | 0.05% Thimerosal and 0.05% Sodium azide |
| Stabilizer | 5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated |

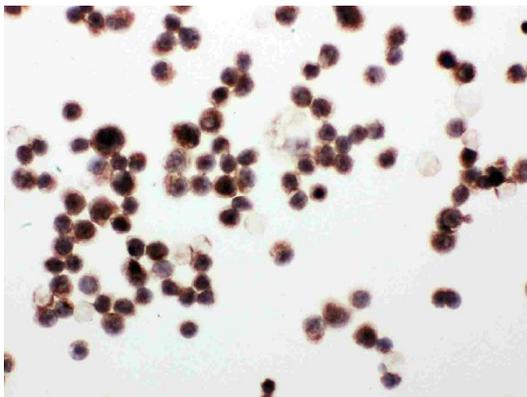
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

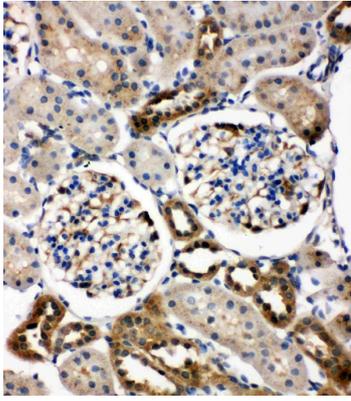
| | |
|------------------------------|---|
| Gene Symbol | WISP1 |
| Gene Full Name | WNT1 inducible signaling pathway protein 1 |
| Background | This gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. 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. [UniProt] |
| Calculated Mw | 40 kDa |
| Cellular Localization | Secreted. [UniProt] |

Images



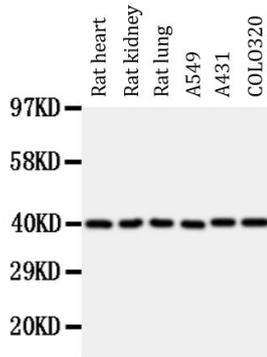
ARG42929 anti-CCN4 / WISP1 antibody ICC image

Immunocytochemistry: MCF7 cells stained with ARG42929 anti-CCN4 / WISP1 antibody.



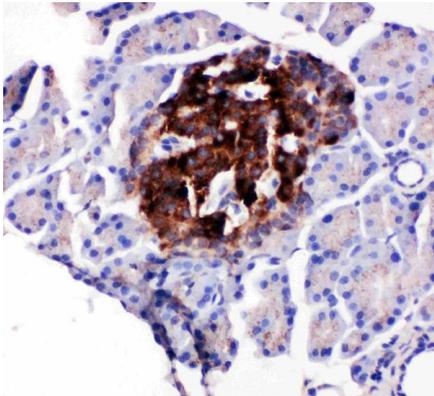
ARG42929 anti-CCN4 / WISP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney tissue stained with ARG42929 anti-CCN4 / WISP1 antibody.



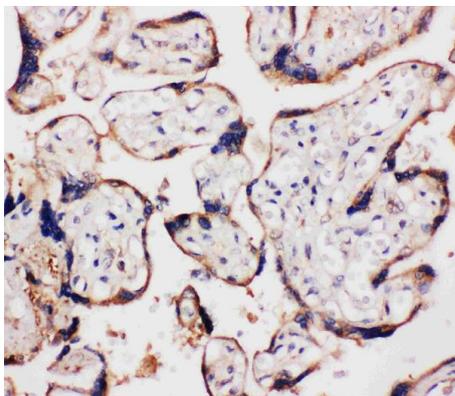
ARG42929 anti-CCN4 / WISP1 antibody WB image

Western blot: 50 µg of Rat heart, 50 µg of Rat kidney, 50 µg of Rat lung, 40 µg of A549, 40 µg of A431 and 40 µg of COLO320 whole cell lysates stained with ARG42929 anti-CCN4 / WISP1 antibody at 0.5 µg/ml dilution.



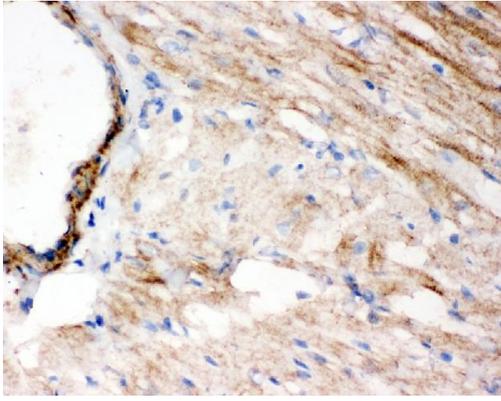
ARG42929 anti-CCN4 / WISP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat pancreas tissue stained with ARG42929 anti-CCN4 / WISP1 antibody.



ARG42929 anti-CCN4 / WISP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue stained with ARG42929 anti-CCN4 / WISP1 antibody.



ARG42929 anti-CCN4 / WISP1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat cardiac muscle tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42929 anti-CCN4 / WISP1 antibody at 1 µg/ml dilution, overnight at 4°C.