

## ARG82102 Rat WISP1 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82102-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82102-002	Standard	2 X 100 ng/vial	4°C
ARG82102-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82102-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82102-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82102-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82102-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82102-008	25X Wash buffer	20 ml	4°C
ARG82102-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82102-010	STOP solution	10 ml (Ready to use)	4°C
ARG82102-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82102 Rat WISP1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat WISP1 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	WISP1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.78 ng/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	1.56 - 100 ng/ml
Precision	Intra-Assay CV: 5.0%; Inter-Assay CV: 5.8%

**Alternate Names** CCN4; WISP-1; WISP1i; WISP1c; CCN family member 4; Wnt-1-induced secreted protein; WNT1-inducible-signaling pathway protein 1; WISP1tc

## Properties

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**Form** 96 well

**Storage instruction** Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

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

## Bioinformation

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**Gene Symbol** WISP1

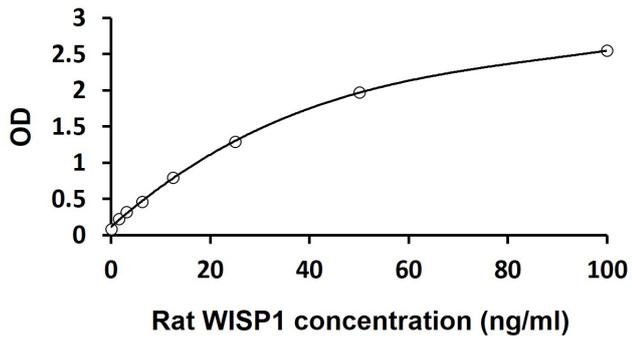
**Gene Full Name** WNT1 inducible signaling pathway protein 1

**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]

**Highlight** Related products:  
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[Simplify the ELISA analysis by GainData](#)

**Cellular Localization** Secreted. [UniProt]



ARG82102 Rat WISP1 ELISA Kit standard curve image

ARG82102 Rat WISP1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.