

## ARG81524 Human WISP1 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG81524-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81524-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG81524-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG81524-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG81524-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG81524-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG81524-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG81524-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG81524-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG81524-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG81524-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG81524 Human WISP1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human WISP1 in serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Tested Reactivity   | Hu  |
| 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         | 15.6 pg/ml  |
| Sample Type         | Serum, plasma (heparin, EDTA) and cell culture supernatants.  |
| Standard Range      | 31.2 - 2000 pg/ml   |
| Sample Volume       | 100 µl  |

|                 |   |
|-----------------|---|
| Precision       | Intra-Assay CV: 5.1%<br>Inter-Assay CV: 5.9%  |
| Alternate Names | CCN4; WISP-1; WISP1i; WISP1c; CCN family member 4; Wnt-1-induced secreted protein;<br>WNT1-inducible-signaling pathway protein 1; WISP1tc |

## Application Instructions

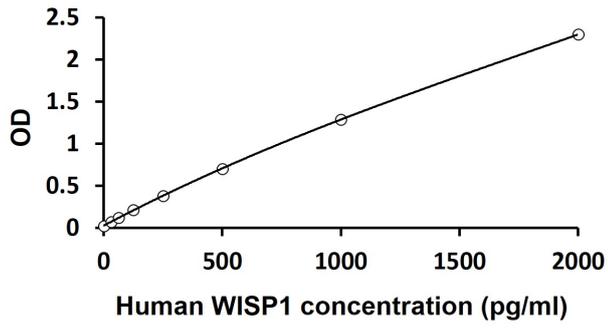
|            |           |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

## Properties

|                     |  |
|---------------------|--|
| 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

|                |   |
|----------------|---|
| 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:<br><a href="#">WISP1 ELISA Kits</a> ;<br>New ELISA data calculation tool:<br><a href="#">Simplify the ELISA analysis by GainData</a>  |



ARG81524 Human WISP1 ELISA Kit standard curve image

ARG81524 Human WISP1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.