

Datasheet for ABIN1889373

WISP1 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	96 tests
Target:	WISP1
Binding Specificity:	AA 23-367
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human WISP1/CCN4
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: T23-N367
Specificity:	Expression system for standard: NSO Immunogen sequence: T23-N367
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target:	WISP1
Alternative Name:	WISP1 (WISP1 Products)
Background:	<p>Protein 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. .</p> <p>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. By use of radiation hybrid mapping panels, the WISP1 was mapped to chromosome 8q24.1-q24.3, roughly 4 Mb distal to MYC. It 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.</p> <p>Synonyms: WNT1-inducible-signaling pathway protein 1,WISP-1,CCN family member 4,Wnt-1-induced secreted protein,WISP1,CCN4,</p> <p>Full Gene Name: WNT1-inducible-signaling pathway protein 1</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	8840
UniProt:	O95388
Pathways:	WNT Signaling, Growth Factor Binding

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
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Application Details

	assay was recommended for both standard and sample testing.
Comment:	<p>Sequence similarities: Belongs to the CCN family.</p> <p>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.</p>
Plate:	Pre-coated
Protocol:	human WISP1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for WISP1 has been precoated onto 96-well plates. Standards(NSO, T23-N367) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for WISP1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human WISP1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human WISP1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human WISP1 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 236, Standard deviation: 7.55, CV(%): 3.2• Sample 2: n=16, Mean(pg/ml): 1087, Standard deviation: 46.7, CV(%): 4.3• Sample 3: n=16, Mean(pg/ml): 1826, Standard deviation: 89.5, CV(%): 4.9,• Sample 1: n=24, Mean(pg/ml): 352, Standard deviation: 16.2, CV(%): 4.6• Sample 2: n=24, Mean(pg/ml): 1240, Standard deviation: 64.5, CV(%): 5.2• Sample 3: n=24, Mean(pg/ml): 1910, Standard deviation: 128, CV(%): 6.7
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C

Handling

Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Images

