



Human WNT1-inducible-signaling pathway protein 2(WISP2) ELISA kit

Product Code	CSB-EL026120HU
Abbreviation	WISP2
Protein Biological Process 1	Cell Adhesion
Target Name	WNT1 inducible signaling pathway protein 2
Uniprot No.	O76076
Alias	CCN5, CT58, CTGF-L, OTTHUMP00000063227 connective tissue growth factor-like protein wnt-1 signaling pathway protein 2
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	WISP2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human WISP2 ELISA Kit was designed for the quantitative measurement of Human WISP2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.

Target Details

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 (CT) domain. The encoded protein lacks the CT domain which is implicated in dimerization and heparin binding. It is 72% identical to the mouse protein at the amino acid level. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. Its expression in colon tumors is reduced while the other two WISP members are overexpressed in colon tumors. It is expressed at high levels in bone tissue, and may play an important role in modulating bone turnover.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human WISP2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:5	Average %	99
	Range %	95-103
1:10	Average %	103
	Range %	98-110
1:20	Average %	84
	Range %	80-88
1:40	Average %	90
	Range %	85-94

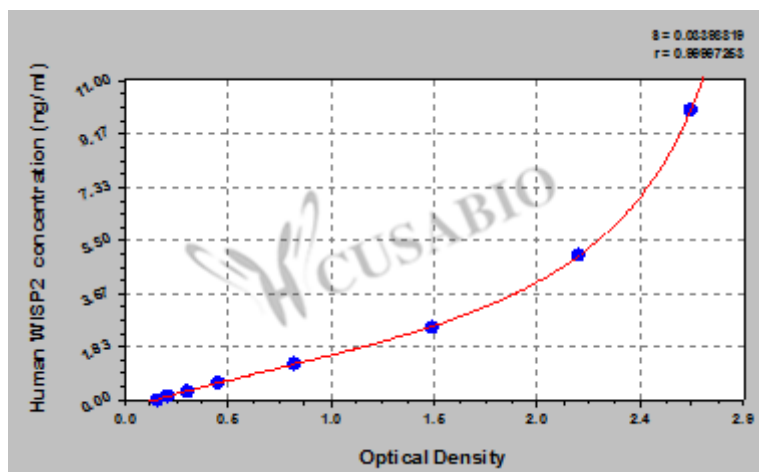
Recovery

The recovery of human WISP2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	95	90-102
EDTA plasma (n=4)	93	89-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
10	2.591	2.761	2.676	2.509
5	2.124	2.177	2.151	1.984
2.5	1.451	1.464	1.458	1.291
1.25	0.832	0.799	0.816	0.649
0.625	0.462	0.443	0.453	0.286
0.312	0.311	0.311	0.311	0.144
0.156	0.210	0.224	0.217	0.050
0	0.165	0.168	0.167	

Msds

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