



Human Protein Wnt-4(WNT4) ELISA kit

Product Code	CSB-EL026137HU
Abbreviation	WNT4
Protein Biological Process 1	Signaling Pathway
Target Name	wingless-type MMTV integration site family, member 4
Uniprot No.	P56705
Alias	RP1-224A6.7, SERKAL, WNT-4, WNT-4 protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Wnt signaling pathway
Sample Types	serum, plasma, tissue homogenates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.8 pg/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	Stem Cells
Gene Names	WNT4
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human WNT4 ELISA Kit was designed for the quantitative measurement of Human WNT4 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.8 pg/mL .

Target Details

The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family, and is the first signaling molecule shown to influence the sex-determination cascade. It encodes a protein which shows 98% amino acid identity to the Wnt4 protein of mouse and rat. This gene and a nuclear receptor



known to antagonize the testis-determining factor play a concerted role in both the control of female development and the prevention of testes formation. This gene and another two family members, WNT2 and WNT7B, may be associated with abnormal proliferation in breast tissue. Mutations in this gene can result in Rokitansky-Kuster-Hauser syndrome and in SERKAL syndrome.

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 WNT4 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)
1:1	Average %	84
	Range %	80-92
1:2	Average %	98
	Range %	91-105
1:4	Average %	97
	Range %	92-110
1:8	Average %	93
	Range %	86-96

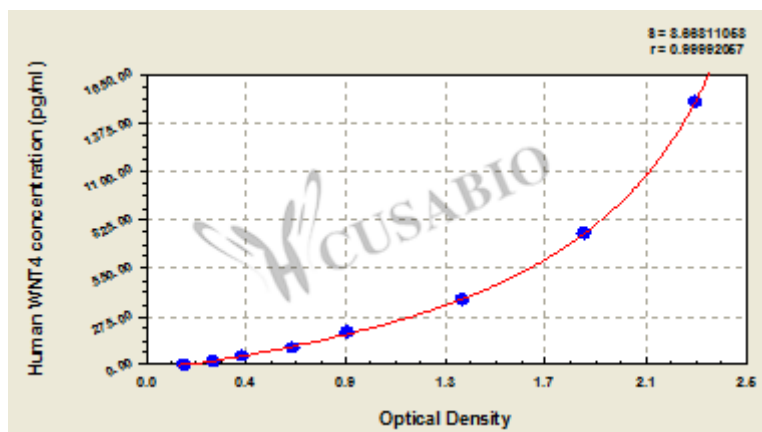
Recovery

The recovery of human WNT4 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)	92	89-95
EDTA plasma (n=4)	97	90-100

Typical

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



pg/ml	OD1	OD2	Average Corrected	
1500	2.31	2.3	2.305	2.133
750	1.843	1.845	1.844	1.672
375	1.331	1.337	1.334	1.162
187.5	0.856	0.855	0.856	0.684
94	0.63	0.621	0.626	0.454
47	0.419	0.414	0.417	0.245
23.5	0.295	0.297	0.296	0.124
0	0.171	0.173	0.172	?

Msds

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