



Human Proto-oncogene Wnt-3(WNT3) ELISA kit

Product Code	CSB-EL026135HU
Abbreviation	WNT3
Protein Biological Process 1	Signaling Pathway
Target Name	wingless-type MMTV integration site family, member 3
Uniprot No.	P56703
Alias	INT4, MGC131950, MGC138321, MGC138323, WNT-3 proto-oncogene protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Wnt signaling pathway
Sample Types	serum, plasma, tissue homogenates, cell lysates
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	Stem Cells
Gene Names	WNT3
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human WNT3 ELISA Kit was designed for the quantitative measurement of Human WNT3 protein in serum, plasma, tissue homogenates, cell lysates. 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

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. It encodes a protein which shows 98% amino acid identity to mouse Wnt3 protein, and 84% to human WNT3A protein, another WNT gene product. The mouse studies show the requirement of Wnt3 in primary axis



formation in the mouse. Studies of the gene expression suggest that this gene may play a key role in some cases of human breast, rectal, lung, and gastric cancer through activation of the WNT-beta-catenin-TCF signaling pathway. This gene is clustered with WNT15, another family member, in the chromosome 17q21 region.

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 WNT3 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 %	93
	Range %	89-97
1:2	Average %	105
	Range %	100-110
1:4	Average %	90
	Range %	85-94
1:8	Average %	84
	Range %	80-88

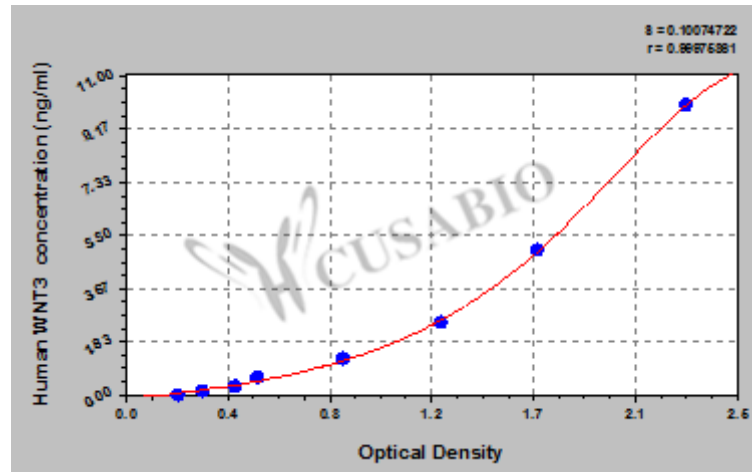
Recovery

The recovery of human WNT3 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)	89	83-94
EDTA plasma (n=4)	98	93-102

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	2.246	2.301	2.274	2.058
5	1.705	1.642	1.674	1.458
2.5	1.244	1.320	1.282	1.066
1.25	0.905	0.873	0.889	0.673
0.625	0.541	0.542	0.542	0.326
0.312	0.435	0.467	0.451	0.235
0.156	0.312	0.325	0.319	0.103
0	0.215	0.216	0.216	

Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL026135HU.pdf",
    "filename": "MSDS"
  }
}
```