Human Dickkopf-related protein 2(DKK2) ELISA kit

Product Code	CSB-EL006921HU
Abbreviation	DKK2
Protein Biological Process 1	Signaling Pathway
Target Name	dickkopf homolog 2 (Xenopus laevis)
Uniprot No.	Q9UBU2
Alias	DKK-2, dickkopf 2|dickkopf homolog 2|dickkopf related protein-2
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	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	DKK2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human DKK2 ELISA Kit was designed for the quantitative measurement of Human DKK2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL .
Target Details	This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. It can act as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular context and the presence of the co-factor kremen 2. Activity of this protein is also modulated by binding to the Wnt co-receptor LDL-receptor related protein 6 (LRP6).

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 DKK2 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 %	91
	Range %	88-98
1:2	Average %	86
	Range %	80-94
1:4	Average %	96
	Range %	92-102
1:8	Average %	95
	Range %	90-100

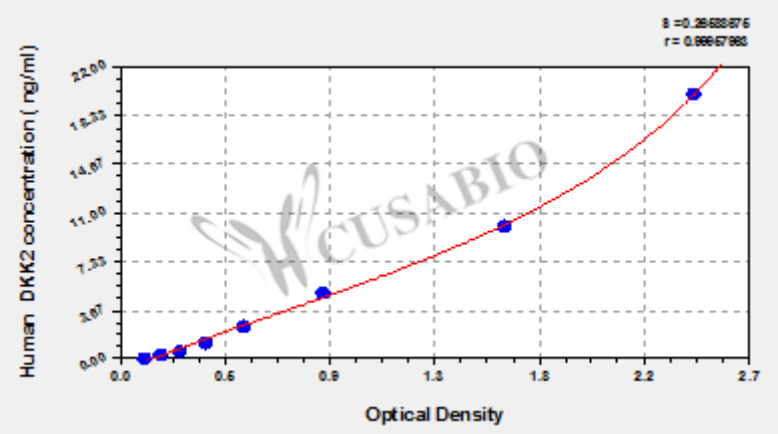
Recovery

The recovery of human DKK2 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)	93	89-97
EDTA plasma (n=4)	98	95-101

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
20	2.416	2.456	2.436	2.324
10	1.579	1.685	1.632	1.520
5	0.834	0.901	0.868	0.756
2.5	0.515	0.545	0.530	0.418
1.25	0.372	0.365	0.369	0.257
0.625	0.266	0.255	0.261	0.149
0.312	0.184	0.178	0.181	0.069
0	0.113	0.111	0.112	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL006921HU.pdf","filename":"MSDS"}}