Human Stanniocalcin-2(STC2) ELISA kit

Product Code	CSB-EL022822HU
Abbreviation	STC2
Target Name	stanniocalcin 2
Uniprot No.	O76061
Alias	STC-2, STCRP, STC-related protein|stanniocalcin-related protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.2 pg/mL-2000 pg/mL
Sensitivity	7.8 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	Signal Transduction
Gene Names	STC2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human STC2 ELISA Kit was designed for the quantitative measurement of Human STC2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.2 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.
Target Details	This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The encoded protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Constitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth restriction, reduced bone and skeletal muscle growth, and organomegaly. Expression of this gene is induced by estrogen and altered in some breast cancers.

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 STC2 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 %	87
	Range %	82-91
1:2	Average %	94
	Range %	89-98
1:4	Average %	107
	Range %	103-110
1:8	Average %	110
	Range %	104-114

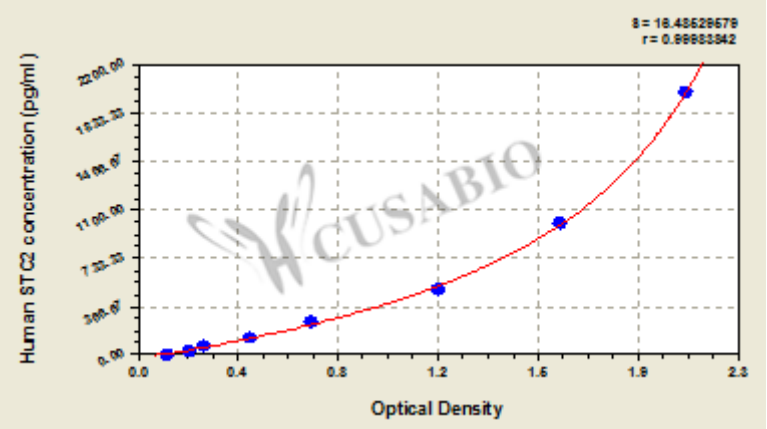
Recovery

The recovery of human STC2 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	91-99
EDTA plasma (n=4)	103	98-108

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
2000	2.096	2.103	2.100	1.982
1000	1.641	1.598	1.620	1.502
500	1.105	1.201	1.153	1.035
250	0.666	0.672	0.669	0.551
125	0.434	0.442	0.438	0.320
62.5	0.268	0.256	0.262	0.144
31.25	0.211	0.201	0.206	0.088
0	0.116	0.120	0.118	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL022822HU.pdf","filename":"MSDS"}}