



Mouse Stanniocalcin-1(STC1) ELISA kit

Product Code	CSB-EL022821MO
Abbreviation	STC1
Target Name	stanniocalcin 1
Uniprot No.	O55183
Alias	STC
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates, cell culture supernates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 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	Stc1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse STC1 ELISA Kit was designed for the quantitative measurement of Mouse STC1 protein in serum, plasma, tissue homogenates, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 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 gene contains a 5' UTR rich in CAG trinucleotide repeats. The encoded protein contains 11 conserved cysteine residues and is phosphorylated by protein kinase C exclusively on its serine residues. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Overexpression of human stanniocalcin 1 in mice produces high serum phosphate levels, dwarfism, and increased metabolic rate. This gene has altered expression in hepatocellular, ovarian, and 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 mouse STC1 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 %	87-97
1:2	Average %	97
	Range %	95-102
1:4	Average %	101
	Range %	95-105
1:8	Average %	94
	Range %	91-98

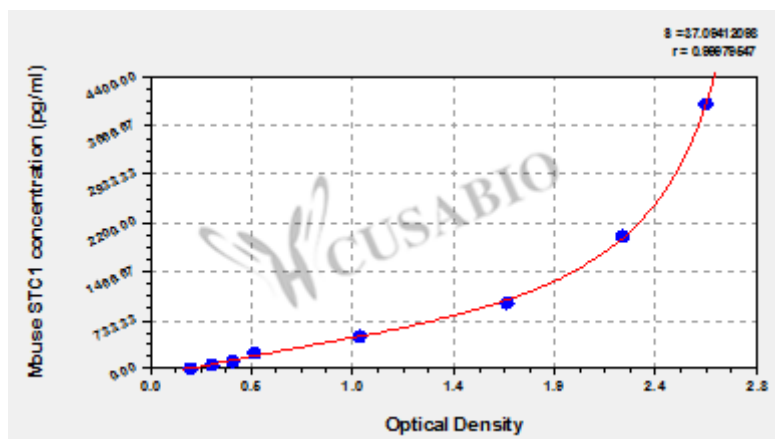
Recovery

The recovery of mouse STC1 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	87-98
EDTA plasma (n=4)	99	95-104

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
4000	2.558	2.633	2.596	2.387
2000	2.205	2.212	2.209	2.000
1000	1.682	1.665	1.674	1.465
500	0.990	0.995	0.993	0.784
250	0.499	0.512	0.506	0.297
125	0.390	0.421	0.406	0.197
62.5	0.299	0.322	0.311	0.102
0	0.205	0.212	0.209	?

Msds

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