Human Serine/threonine-protein kinase Sgk1(SGK1) ELISA kit

Product Code	CSB-EL021189HU
Abbreviation	SGK1
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	serum/glucocorticoid regulated kinase 1
Uniprot No.	O00141
Alias	RP1-188K17.1, SGK, serine/threonine protein kinase SGK
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Apoptosis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	23.44 pg/mL-1500 pg/mL
Sensitivity	5.86 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	SGK1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human SGK1 ELISA Kit was designed for the quantitative measurement of Human SGK1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 23.44 pg/mL-1500 pg/mL and the sensitivity is 5.86 pg/mL.
Target Details	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. High levels of expression of this gene may contribute to conditions such as

hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

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 SGK1 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 %	85-96
1:2	Average %	97
	Range %	91-103
1:4	Average %	102
	Range %	97-108
1:8	Average %	92
	Range %	86-97

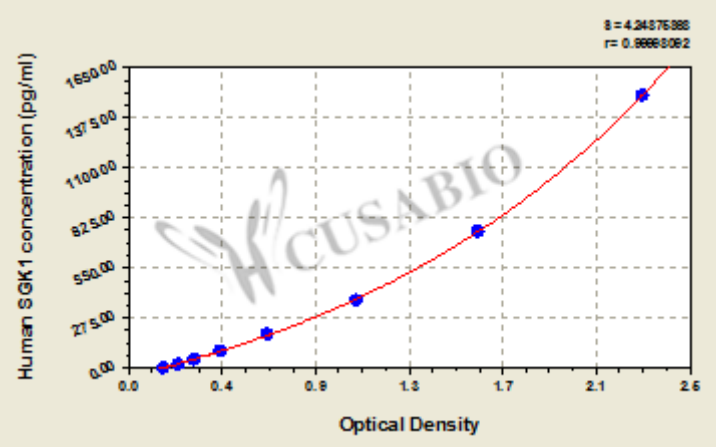
Recovery

The recovery of human SGK1 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)	98	92-103
EDTA plasma (n=4)	94	89-98

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	2.272	2.384	2.328	2.159
750	1.644	1.527	1.586	1.417
375	1.015	1.062	1.039	0.870
187.5	0.649	0.633	0.641	0.472
93.75	0.437	0.421	0.429	0.260
46.88	0.313	0.302	0.308	0.139
23.44	0.235	0.239	0.237	0.068
0	0.168	0.169	0.169	?

Msds

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