Human RE1-silencing transcription factor(REST) ELISA kit

Product Code	CSB-EL019571HU
Abbreviation	REST
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	RE1-silencing transcription factor
Uniprot No.	Q13127
Alias	NRSF, XBR, neuron restrictive silencer factor|repressor binding to the X2 box
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Transcription
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	Epigenetics and Nuclear Signaling
Gene Names	REST
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human REST ELISA Kit was designed for the quantitative measurement of Human REST protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	This gene encodes a transcriptional repressor which represses neuronal genes in non-neuronal tissues. It is a member of the Kruppel-type zinc finger transcription factor family. It represses transcription by binding a DNA sequence element called the neuron-restrictive silencer element. The protein is also found in undifferentiated neuronal progenitor cells, and it is thought that this repressor

may act as a master negative regular of neurogenesis. Alternatively spliced transcript variants have been described; however, their full length nature has not been determined.

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 REST 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 %	80-92
1:2	Average %	96
	Range %	90-105
1:4	Average %	100
	Range %	91-110
1:8	Average %	92
	Range %	86-98

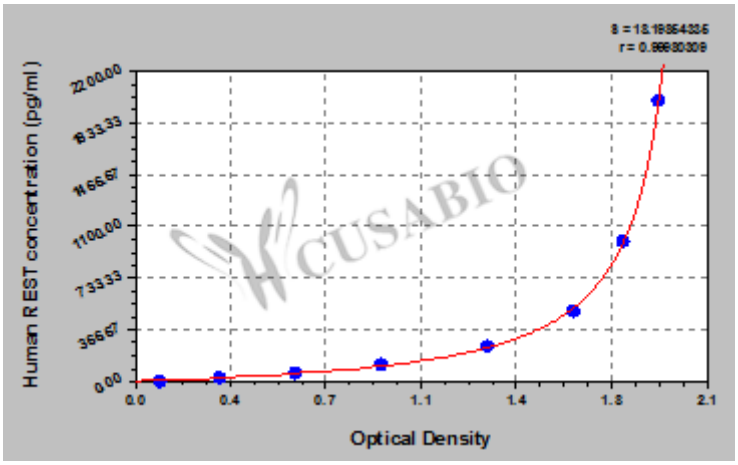
Recovery

The recovery of human REST 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	89-98
EDTA plasma (n=4)	99	92-105

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	1.983	1.882	1.933	1.833
1000	1.808	1.796	1.802	1.702
500	1.636	1.604	1.620	1.520
250	1.321	1.290	1.306	1.206
125	0.918	0.909	0.914	0.814
62.5	0.610	0.590	0.600	0.500
31.25	0.323	0.318	0.321	0.221
0	0.103	0.097	0.100	?

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