



Human cAMP response element-binding protein (CREB) ELISA Kit

Product Code	CSB-E13527h
Abbreviation	CREB1
Protein Biological Process 1	Immunity
Target Name	cAMP responsive element binding protein 1
Uniprot No.	P16220
Alias	CREB, MGC9284, OTTHUMP00000206660 active transcription factor CREB cAMP-response element-binding protein-1 transactivator protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates
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	Immunology
Gene Names	CREB1
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human CREB1 ELISA Kit was designed for the quantitative measurement of Human CREB1 protein in serum, plasma, tissue homogenates. 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 transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to



hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in two transcript variants encoding different isoforms.

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 CREB 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)
1:5	Average %	92
	Range %	87-96
1:10	Average %	89
	Range %	85-94
1:20	Average %	95
	Range %	89-98
1:40	Average %	102
	Range %	98-105

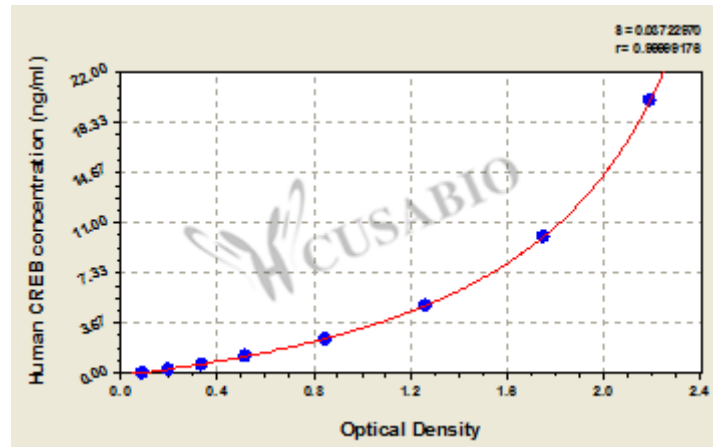
Recovery

The recovery of human CREB 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	93-102
EDTA plasma (n=4)	86	80-92

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	2.157	2.254	2.206	2.104
10	1.715	1.812	1.764	1.662
5	1.267	1.284	1.276	1.174
2.5	0.857	0.863	0.860	0.758
1.25	0.523	0.532	0.528	0.426
0.625	0.343	0.351	0.347	0.245
0.312	0.206	0.213	0.210	0.108
0	0.103	0.101	0.102	

Msds

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