Human Core Binding Factor alpha1 CBFA1/RUNX2 ELISA Kit

Product Code	CSB-E12935h
Abbreviation	RUNX2
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	runt-related transcription factor 2
Uniprot No.	Q13950
Alias	RP1-166H4.1, AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1, CBF-alpha 1|SL3-3 enhancer factor 1 alpha A subunit|SL3/AKV core-binding factor alpha A
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Transcription
Sample Types	serum, plasma, tissue homogenates, cell culture supernates
Detection Range	31.25 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	Epigenetics and Nuclear Signaling
Gene Names	RUNX2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human RUNX2 ELISA Kit was designed for the quantitative measurement of Human RUNX2 protein in serum, plasma, tissue homogenates, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.
Target Details	This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold

for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Mutations in this gene have been associated with the bone development disorder cleidocranial dysplasia (CCD). Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing.

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 CBFA1 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)
1:200	Average %	91
	Range %	86-95
1:400	Average %	102
	Range %	97-107
1:800	Average %	91
	Range %	85-97
1:1600	Average %	97
	Range %	91-103

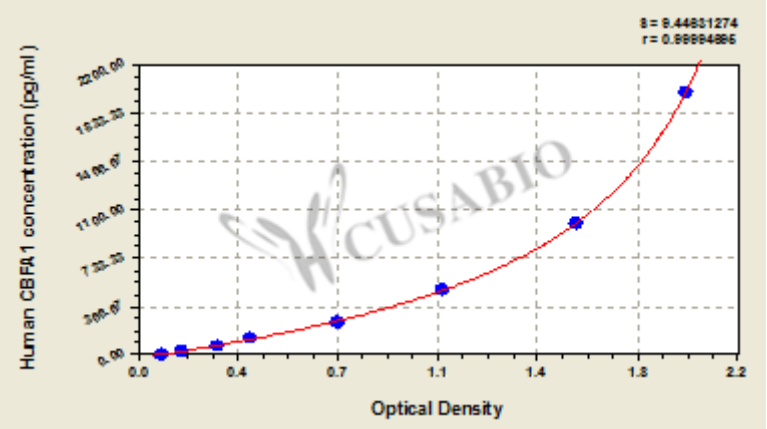
Recovery

The recovery of human CBFA1 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	89-98
EDTA plasma (n=4)	97	90-100

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	1.957	1.999	1.978	1.887
1000	1.567	1.603	1.585	1.494
500	1.106	1.101	1.104	1.013
250	0.719	0.732	0.726	0.635
125	0.407	0.412	0.410	0.319
62.5	0.283	0.298	0.291	0.200
31.25	0.164	0.165	0.165	0.074
0	0.090	0.092	0.091	?

Msds {"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E12935h.pdf","filename":"MSDS"}}