Human lamin A/C (LMNA) ELISA kit

Product Code	CSB-EL013003HU
Abbreviation	LMNA
Target Name	lamin A/C
Uniprot No.	P02545
Alias	RP11-54H19.1, CDCD1, CDDC, CMD1A, CMT2B1, EMD2, FPL, FPLD, HGPS, IDC, LDP1, LFP, LGMD1B, LMN1, LMNC, PRO1, 70 kDa lamin|OTTHUMP00000015843
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	LMNA
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human LMNA ELISA Kit was designed for the quantitative measurement of Human LMNA protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. Through alternate splicing, this gene encodes three type A lamin isoforms. Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.

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 LMNA 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 %	88
	Range %	85-91
1:2	Average %	103
	Range %	100-106
1:4	Average %	85
	Range %	82-89
1:8	Average %	96
	Range %	93-99

Recovery

The recovery of human LMNA 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)	84	81-87
EDTA plasma (n=4)	94	91-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.
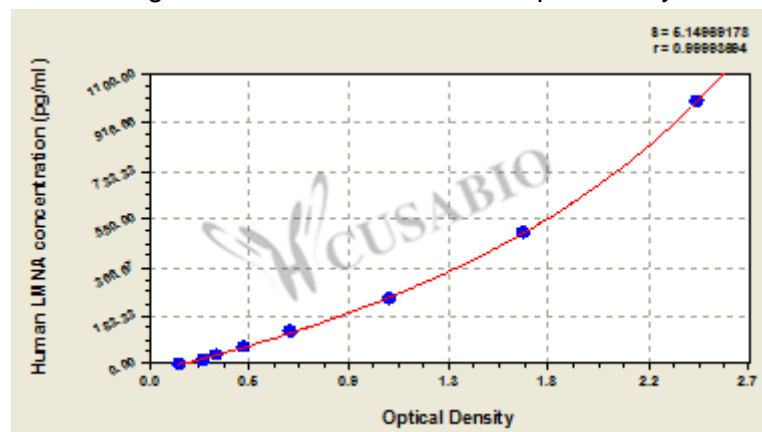
pg/ml	OD1	OD2	Average	Corrected
1000	2.434	2.468	2.451	2.302
500	1.661	1.698	1.680	1.531
250	1.094	1.072	1.083	0.934
125	0.656	0.627	0.642	0.493
62.5	0.426	0.442	0.434	0.285
31.2	0.309	0.318	0.314	0.165
15.6	0.258	0.248	0.253	0.104
0	0.150	0.148	0.149	

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