Human Vinculin(VCL) ELISA kit

Product Code	CSB-EL025812HU
Abbreviation	VCL
Protein Biological Process 1	Cell Adhesion
Target Name	vinculin
Uniprot No.	P18206
Alias	RP11-178G16.3, CMD1W, MVCL, metavinculin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	28 pg/mL-1800 pg/mL
Sensitivity	7 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	Cardiovascular
Gene Names	VCL
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human VCL ELISA Kit was designed for the quantitative measurement of Human VCL protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 28 pg/mL-1800 pg/mL and the sensitivity is 7 pg/mL.
Target Details	Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some

variants 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 VCL 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 %	95
	Range %	89-99
1:2	Average %	97
	Range %	93-101
1:4	Average %	93
	Range %	89-97
1:8	Average %	101
	Range %	97-104

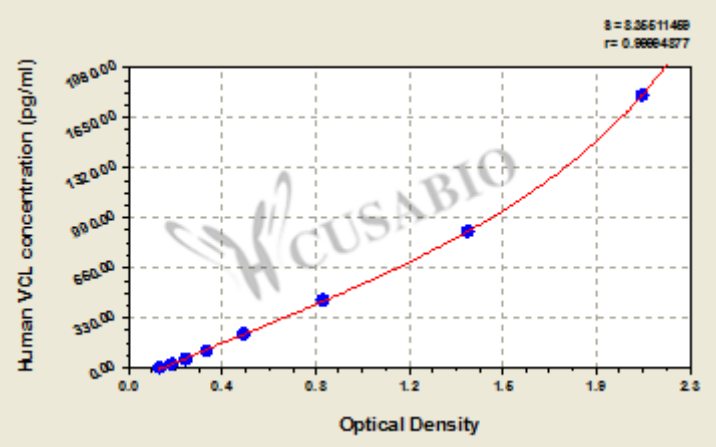
Recovery

The recovery of human VCL 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)	88	84-92
EDTA plasma (n=4)	97	92-103

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
1800	2.043	2.152	2.098	1.959
900	1.441	1.342	1.392	1.253
450	0.782	0.824	0.803	0.664
225	0.463	0.492	0.478	0.339
112	0.331	0.324	0.328	0.189
56	0.247	0.234	0.241	0.102
28	0.189	0.184	0.187	0.048
0	0.138	0.140	0.139	

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL025812HU.pdf","filename":"MSDS"}}