



Mouse plasma kallikrein(KLKB1) ELISA Kit

Product Code	CSB-E16637m
Abbreviation	KLKB1
Protein Biological Process 1	Blood Coagulation
Target Name	plasma kallikrein(KLKB1)
Uniprot No.	P26262
Alias	KLK3, PPK, Fletcher factor kininogenin plasma kallikrein B1 plasma kallikrein heavy chain plasma kallikrein light chain
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Blood coagulation
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 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	Cell Biology
Gene Names	Klkbl
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse KLKB1 ELISA Kit was designed for the quantitative measurement of Mouse KLKB1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL.

Target Details

Plasma prekallikrein is a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. It is synthesized in the liver and secreted into the blood as a single polypeptide chain. Plasma prekallikrein is converted to plasma kallikrein by factor XIIa by the cleavage of an internal Arg-Ile bond. Plasma kallikrein therefore is composed of a heavy chain and a light chain held together by a disulphide bond. The heavy chain originates from the amino-terminal end of the zymogen and contains 4



tandem repeats of 90 or 91 amino acids. Each repeat harbors a novel structure called the apple domain. The heavy chain is required for the surface-dependent pro-coagulant activity of plasma kallikrein. The light chain contains the active site or catalytic domain of the enzyme and is homologous to the trypsin family of serine proteases. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients.

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 mouse KLKB1 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)
1:1000	Average %	99
	Range %	96-102
1:2000	Average %	103
	Range %	100-106
1:4000	Average %	89
	Range %	84-94
1:8000	Average %	96
	Range %	94-98

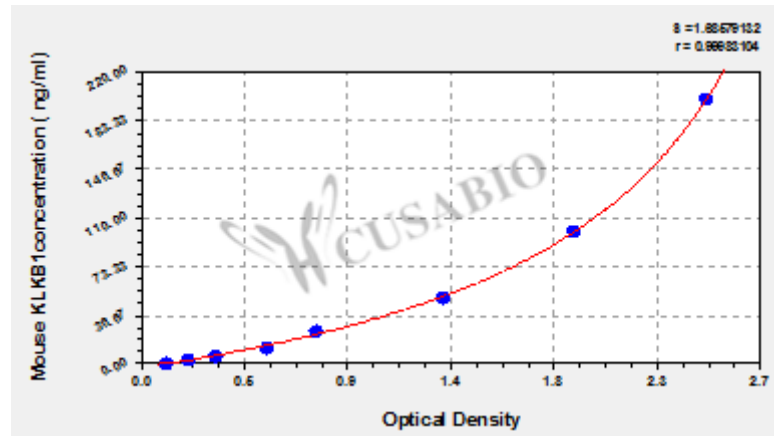
Recovery

The recovery of mouse KLKB1 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	89-97
EDTA plasma (n=4)	103	100-105

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
200	2.459	2.555	2.507	2.388
100	1.877	1.966	1.922	1.803
50	1.355	1.332	1.344	1.225
25	0.789	0.768	0.779	0.660
12.5	0.546	0.588	0.567	0.448
6.25	0.323	0.345	0.334	0.215
3.12	0.204	0.221	0.213	0.094
0	0.118	0.119	0.119	

Msds

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