Mouse Vitamin K-dependent protein S(PROS1) ELISA kit

Product Code	CSB-EL018754MO
Abbreviation	PROS1
Protein Biological Process 1	Blood Coagulation
Target Name	protein S (alpha)
Uniprot No.	Q08761
Alias	PROS, PS21, PS22, PS23, PS24, PS25, PSA, protein S, alpha|protein Sa|vitamin K-dependent plasma protein S
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Blood coagulation
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 ng/mL-400 ng/mL
Sensitivity	1.56 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	Cardiovascular
Gene Names	Pros1
Tag Info	quantitative
Protein Description	Competitive
Description	This Mouse PROS1 ELISA Kit was designed for the quantitative measurement of Mouse PROS1 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 6.25 ng/mL-400 ng/mL and the sensitivity is 1.56 ng/mL.
Target Details	This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in

this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3.

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 APOC4 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 %	92
	Range %	88-96
1:400	Average %	87
	Range %	84-90
1:800	Average %	95
	Range %	91-99
1:1600	Average %	97
	Range %	92-102

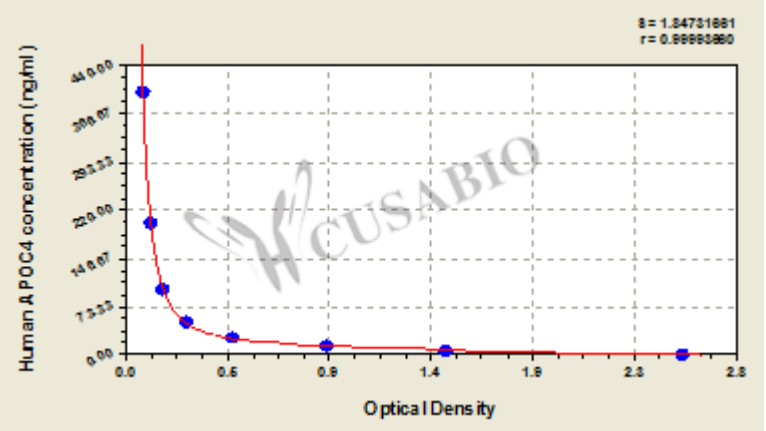
Recovery

The recovery of human APOC4 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)	94	90-98
EDTA plasma (n=4)	98	94-103

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
400	0.080	0.083	0.082
200	0.117	0.119	0.118
100	0.177	0.172	0.175
50	0.276	0.296	0.286
25	0.504	0.490	0.497
12.5	0.923	0.931	0.927
6.25	1.461	1.496	1.479
0	2.539	2.587	2.563