



Rabbit Coagulation factor VII(F7) ELISA kit

Product Code	CSB-EL007930RB
Abbreviation	F7
Protein Biological Process 1	Blood Coagulation
Target Name	coagulation factor VII (serum prothrombin conversion accelerator)
Uniprot No.	P98139
Alias	FVII coagulation protein coagulation factor VII eptacog alfa
Product Type	ELISA Kit
Immunogen Species	Oryctolagus cuniculus (Rabbit)
Protein Biological Process 3	Blood coagulation
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.9 ng/mL-250 ng/mL
Sensitivity	1 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	Blood Coagulation
Gene Names	F7
Tag Info	quantitative
Protein Description	Competitive

Description

This Rabbit Coagulation factor VII (F7) ELISA Kit was designed for the quantitative measurement of Rabbit Coagulation factor VII (F7) protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 3.9 ng/mL-250 ng/mL and the sensitivity is 1 ng/mL.

Target Details

This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates



the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy.

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 rabbit F7 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)
	Average %	85
1:20	Range %	80-90
	Average %	104
1:40	Range %	100-107
	Average %	87
1:80	Range %	83-90
	Average %	102
1:160	Range %	98-106

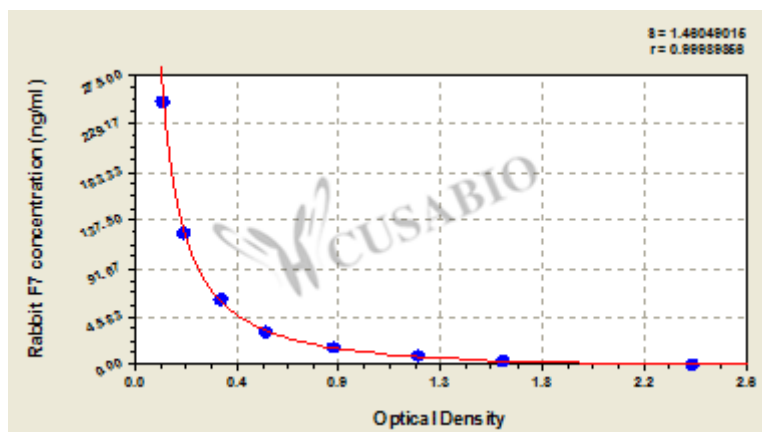
Recovery

The recovery of rabbit F7 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	84-93
EDTA plasma (n=4)	110	107-113

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

250	0.134	0.130	0.132
125	0.219	0.221	0.220
62.5	0.378	0.381	0.380
31.2	0.565	0.581	0.573
15.6	0.868	0.858	0.863
7.8	1.209	1.236	1.223
3.9	1.598	1.569	1.584
0	2.399	2.401	2.400