Rat urokinase plasminogen activator,uPA ELISA kit

Product Code	CSB-E07368r
Abbreviation	PLAU
Protein Biological Process 1	Blood Coagulation
Target Name	plasminogen activator, urokinase
Uniprot No.	P29598
Alias	ATF, UPA, URK, u-PA, U-plasminogen activator|plasminogen activator, urinary|urokinase-type plasminogen activator
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Plasminogen activation
Sample Types	serum, plasma, tissue homogenates
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	Cardiovascular
Gene Names	Plau
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat PLAU ELISA Kit was designed for the quantitative measurement of Rat PLAU protein in serum, plasma, tissue homogenates. 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	This gene encodes a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimer s disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in

plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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 rat uPA 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 %	91
	Range %	88-95
1:2	Average %	95
	Range %	90-100
1:4	Average %	97
	Range %	94-103
1:8	Average %	101
	Range %	96-105

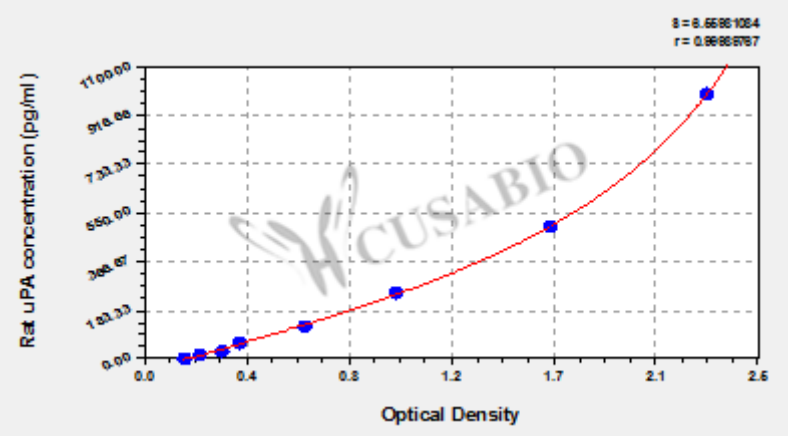
Recovery

The recovery of rat uPA 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)	90	87-94
EDTA plasma (n=4)	96	94-101

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	2.334	2.186	2.260	2.077
500	1.652	1.625	1.639	1.456
250	1.047	0.997	1.022	0.839
125	0.636	0.688	0.662	0.479
62.5	0.398	0.402	0.400	0.217
31.2	0.325	0.337	0.331	0.148
15.6	0.246	0.232	0.239	0.056
0	0.189	0.177	0.183	?

Msds

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