

🕜 Tel: +1-301-363-4651 🛛 🖂 Email: cusabio@cusabio.com 🤅 Website: www.cusabio.com 🍵

Mouse urokinase plasminogen activator,uPA ELISA kit

Product Code	CSB-E07369m		
Abbreviation	PLAU		
Protein Biological Process 1	Blood Coagulation		
Target Name	plasminogen activator, urokinase		
Uniprot No.	P06869		
Alias	ATF, UPA, URK, u-PA, U-plasminogen activator plasminogen activator, urinary urokinase-type plasminogen activator		
Product Type	ELISA Kit		
Immunogen Species	Mus musculus (Mouse)		
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	CLISABIO's mouse urokinase plasminogen activator (uPA) ELISA kit is an in		

CUSABIO's mouse urokinase plasminogen activator (uPA) ELISA kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of mouse uPA in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of uPA in samples. The color intensity is measured at 450 nm via a microplate reader.

uPA (PLAU) is a serine protease that cleaves and activates plasminogen, which triggers a proteolytic cascade to regulate extracellular matrix (ECM) proteins.

1



The uPA and uPAR interaction is involved in various cellular activities, including cell proliferation, adhesion, invasion, and survival but is also linked to a broad range of pathological conditions including cancer, atherosclerosis, and kidney disease. In cancer, enhanced levels of the tumor-associated serine protease uPA and its receptor uPAR are linked to tumor progression, metastasis, and shortened survival in patients afflicted with this disease.

Target Details	This gene encodes a serine protease involved in degradation of the extracellulat 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	concentrations of mo	5 96-107 % 96 5 90-100 % 95 5 89-100 % 98	and diluted with the Sample	
Recovery	The recovery of mouse 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)	93	86-97	
	EDTA plasma (n=4)	101	95-106	





Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E07369m.pdf","filename":"MSDS"}}