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Datasheet for ABIN411365 PLAU ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	PLAU
Binding Specificity:	AA 1-431
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human uPA/PLAU
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: M1-L431
Specificity:	Expression system for standard: NSO Immunogen sequence: M1-L431
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<5pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	PLAU
Alternative Name:	PLAU (PLAU Products)
Background:	Protein Function: Specifically cleaves the zymogen plasminogen to form the active enzyme
	plasmin.
	Background: Plasminogen activator,urokinase(PLAU, uPA) converts plasminogen to plasmin.
	Plasmin is involved in processing of amyloid precursor protein and degrades secreted and
	aggregated amyloid-beta, a hallmark of Alzheimer disease(AD). Urokinase has a molecular
	mass of about 54 kD and is composed of 2 disulfide-linked chains, A and B, of molecular
	masses 18 kD and 33 kD, respectively. It localized on 10q24. uPA facilitates cell migration by
	localizing proteolisys on the cell surface and by inducing intracellular signalling pathways. In
	human vascular smooth muscle cell(VSMC), uPA stimulates migration via the uPA
	receptor(uPAR) signalling complex containing TYK2 and phosphatidylinositol 3-kinase(PI3-K)
	Synonyms: Urokinase-type plasminogen activator,U-plasminogen
	activator,uPA,3.4.21.73,Urokinase-type plasminogen activator long chain A,Urokinase-type
	plasminogen activator short chain A,Urokinase-type plasminogen activator chain B,PLAU,
	Full Gene Name: Urokinase-type plasminogen activator
	Cellular Localisation: Secreted.
Gene ID:	5328
JniProt:	P00749
Pathways:	Cellular Response to Molecule of Bacterial Origin, Carbohydrate Homeostasis, Autophagy,
	Smooth Muscle Cell Migration

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.

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Application Details	
Comment:	Sequence similarities: Belongs to the peptidase S1 family.
	Tissue Specificity: Expressed in the prostate gland and prostate cancers
Plate:	Pre-coated
Protocol:	human uPA ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for uPA has been precoated onto 96-
	well plates. Standards(NSO, M1-L431) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for uPA is added subsequently and then
	followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and
	unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used
	to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color
	product that changed into yellow after adding acidic stop solution. The density of yellow is
	proportional to the human uPA amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,
	125pg/mL, 62.5pg/mL human uPA standard solutions into the precoated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human uPA standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 126, Standard deviation: 5.92, CV(%): 4.7
	 Sample 2: n=16, Mean(pg/ml): 1895, Standard deviation: 64.43, CV(%): 3.4
	• Sample 3: n=16, Mean(pg/ml): 2619, Standard deviation: 138.8, CV(%): 5.3,
	 Sample 1: n=24, Mean(pg/ml): 250, Standard deviation: 13.5, CV(%): 5.4 Sumple 2: n=24, Mean (ng/ml): 1562, Standard deviation: 05, 65, SV(%): 6.1
	 Sample 2: n=24, Mean(pg/ml): 1568, Standard deviation: 95.65, CV(%): 6.1 Sample 3: n=24, Mean(pg/ml): 2755, Standard deviation: 187.3, CV(%): 6.8
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

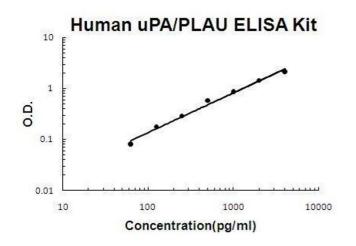
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Product cited in:

Wang, Lee, Chou, Yang, Wei, Chen, Yao, Hsu, Zhu, Ying, Ye, Wang, Lim, Xia, Ko, Liu, Liu, Wu, Wang, Li, Prakash, Katz, Kang, Kim, Fleming, Fogelman, Javle, Maitra, Hung: " Angiogenin/Ribonuclease 5 Is an EGFR Ligand and a Serum Biomarker for Erlotinib Sensitivity in Pancreatic Cancer." in: **Cancer cell**, Vol. 33, Issue 4, pp. 752-769.e8, (2019) (PubMed).

There are more publications referencing this product on: Product page

Images



ELISA

Image 1. Human uPA/PLAU PicoKine ELISA Kit standard curve