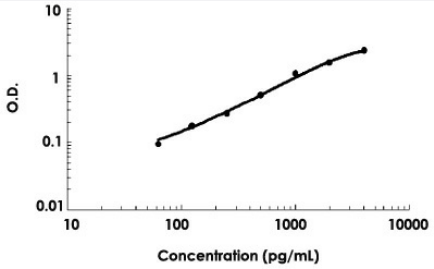
PLAU (Human) ELISA Kit

Catalog # KA0425 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	PLAU (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human PLAU.
Suitable Sample	Cell Culture Supernatant, Serum, Plasma (heparin, EDTA)
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	62.5 to 4000 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Quality Control Testing	Standard curve The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

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Applications

- Quantification

Gene Info — PLAU

Entrez GeneID	5328
Gene Name	PLAU
Gene Alias	ATF, UPA, URK, UROKINASE, u-PA
Gene Description	plasminogen activator, urokinase
Omim ID	104300 191840
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000019849|U-plasminogen activator|antagonist of uPA|plasminogen activator, urinary|urokinase plasminogen activator|urokinase-type plasminogen activator amino-terminal fragment

Publication Reference

- Association of late-onset Alzheimer disease with a genotype of PLAU, the gene encoding urokinase-type plasminogen activator on chromosome 10q22.2.

  Finckh U, van Hadeln K, Muller-Thomsen T, Alberici A, Binetti G, Hock C, Nitsch RM, Stoppe G, Reiss J, Gal A.

  Neurogenetics 2003 Aug; 4(4):213.

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- Urokinase-induced migration of human vascular smooth muscle cells requires coupling of the small GTPases RhoA and Rac1 to the Tyk2/PI3-K signalling pathway.

  Kiian I, Tkachuk N, Haller H, Dumler I.

  Thrombosis and Haemostasis 2003 May; 89(5):904.

Pathway

- Complement and coagulation cascades

Disease

- Alveolar Bone Loss
- Alzheimer disease
- Arthritis
- Asthma
- Bacteremia
- Blood Platelet Disorders
- Bronchopulmonary Dysplasia
- Carcinoma
- Cardiovascular Diseases
- Chorioamnionitis
- Chronic Disease
- Cognition
- Colorectal Neoplasms
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Fetal Membranes

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- Genetic Predisposition to Disease
- Gram-Negative Bacterial Infections
- Hypersensitivity
- Inflammation
- Insulin Resistance
- Kidney Calculi
- Kidney Failure
- Lung Neoplasms
- Metabolic Syndrome X
- Mitral Valve Prolapse
- Mouth Neoplasms
- Multiple Sclerosis
- Myocardial Infarction
- Neoplasms
- Neovascularization
- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pneumoconiosis
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Recurrence

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- Respiratory Distress Syndrome
- Small Cell Lung Carcinoma
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Urinary Calculi

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