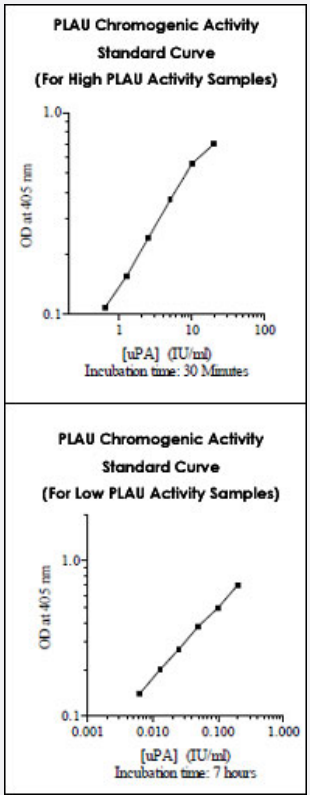
PLAU (Human) Chromogenic Activity Assay Kit (Indirect Assay)

Catalog # KA0977 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) Chromogenic Activity Assay Kit (Indirect Assay) is developed to determine human P LAU activity in plasma and cell culture supernatants.
Suitable Sample	Cell Culture Supernatant, Plasma, Serum
Calibration Range	0.313 to 20 IU/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -20°C. For best results, please store the components as described in the protocol. Avoid repeated freezing and thawing.

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Applications

- Functional Study

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

Pathway

- Complement and coagulation cascades

Disease

- Alveolar Bone Loss

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- 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
- Genetic Predisposition to Disease
- Gram-Negative Bacterial Infections
- Hypersensitivity
- Inflammation
- Insulin Resistance
- Kidney Calculi
- Kidney Failure
- Lung Neoplasms
- Metabolic Syndrome X
- Mitral Valve Prolapse

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

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