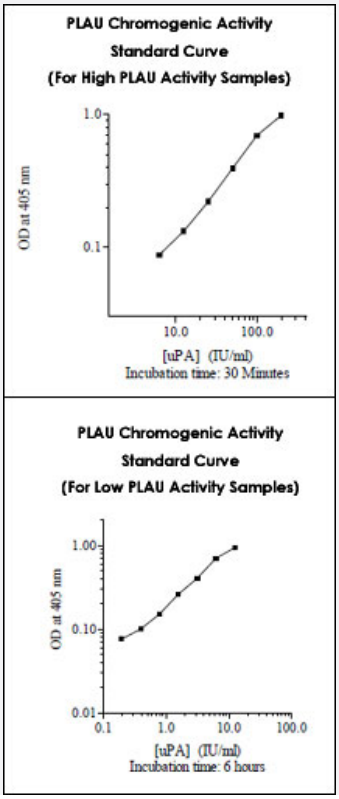
PLAU (Human) Chromogenic Activity Assay Kit (Direct Assay)

Catalog # KA0976 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 (Direct Assay) is developed to determine Urokinase -type plasminogen activator (uPA) activity in human plasma, serum, and cell culture samples.
Suitable Sample	Cell Culture Supernatant, Plasma and Serum.
Sample Volume	30 uL
Detection Method	405 nm
Calibration Range	For high level uPA activity samples: 0.781 to 12.5 IU/mL For low level uPA activity samples: 0.098 to 1.563 IU/mL
Reactivity	Human

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Regulation Status	For research use only (RUO)
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

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

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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
- Genetic Predisposition to Disease
- Gram-Negative Bacterial Infections
- Hypersensitivity
- Inflammation
- Insulin Resistance
- Kidney Calculi
- Kidney Failure

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

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