

PLAU polyclonal antibody

Catalog # PAB14920

Size

Specification

Product Description	Rabbit polyclonal antibody raised against native PLAU.
Immunogen	Native purified two chain human urinary type high molecular weight PLAU from pooled urine.
Host	Rabbit
Reactivity	Human
Specificity	This antibody reacts only with human t-PA. No reactivity with human high molecular weight urokinase. Identity established by double diffusion with t-PA isolated from human, uterine tissue human and CHO derived recombinant t-PA. No other proteins so far tested showed greater than 1% cross reaction.
Form	Liquid
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In serum
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry
- Immunofluorescence

- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay
- Radioimmunoassay
- Inhibition Assay

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](#)
- [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](#)
- [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](#)