10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Goat Anti-Plasminogen Activator / PLAU Antibody
**Peptide-affinity purified goat antibody**
**Catalog # AF1839a**

## Specification

### Goat Anti-Plasminogen Activator / PLAU Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P00749 |
| Other Accession | NP_001138503, 5328 |
| Reactivity | **Human** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **0.5mg/ml** |
| Isotype | **IgG** |
| Calculated MW | **48523** |

### Goat Anti-Plasminogen Activator / PLAU Antibody - Additional Information

**Gene ID** 5328

**Other Names**
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

**Format**
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
Goat Anti-Plasminogen Activator / PLAU Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-Plasminogen Activator / PLAU Antibody - Protein Information

**Name** PLAU (HGNC:9052)

**Function**
Specifically cleaves the zymogen plasminogen to form the active enzyme plasmin.

**Cellular Location**
Secreted.

**Tissue Location**
Expressed in the prostate gland and prostate cancers.

## Goat Anti-Plasminogen Activator / PLAU Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Goat Anti-Plasminogen Activator / PLAU Antibody - Images




AF1839a (0.3 µg/ml) staining of 293 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Goat Anti-Plasminogen Activator / PLAU Antibody - Background

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.

## Goat Anti-Plasminogen Activator / PLAU Antibody - References

Tumour budding, uPA and PAI-1 are associated with aggressive behaviour in colon cancer. M□rkl B, et al. J Surg Oncol, 2010 Sep 1. PMID 20740581.

A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.
Insulin-like growth factors II exon 9 and E-cadherin-Pml I but not myeloperoxidase promoter-463, urokinase-ApaL I nor xeroderma pigmentosum polymorphisms are associated with higher susceptibility to leiomyoma. Hsieh YY, et al. Anticancer Res, 2010 Jun. PMID 20651370.
Evaluation of candidate stromal epithelial cross-talk genes identifies association between risk of serous ovarian cancer and TERT, a cancer susceptibility hot-spot. Johnatty SE, et al. PLoS Genet, 2010 Jul 8. PMID 20628624.
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

**Goat Anti-Plasminogen Activator / PLAU Antibody - Citations**

- Confluence switch signaling regulates ECM composition and the plasmin proteolytic cascade in keratinocytes.