10320 Camino Santa Fe, Suite G
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Urokinase (PLAU) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8161a

Specification

Urokinase (PLAU) Antibody (N-term) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	P00749
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**60-90**

Urokinase (PLAU) Antibody (N-term) - Additional Information

Gene ID 5328

Other Names
Urokinase-type plasminogen activator, U-plasminogen activator, uPA, Urokinase-type plasminogen activator long chain A, Urokinase-type plasminogen activator short chain A, Urokinase-type plasminogen activator chain B, PLAU

Target/Specificity
This Urokinase (PLAU) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 60-90 amino acids from the N-terminal region of human Urokinase (PLAU).

Dilution
FC~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

Precautions
Urokinase (PLAU) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Urokinase (PLAU) Antibody (N-term) - Protein Information

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Name PLAU (HGNC:9052)

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

Cellular Location
Secreted.

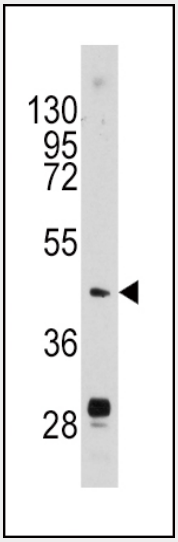
Tissue Location
Expressed in the prostate gland and prostate cancers.

Urokinase (PLAU) Antibody (N-term) - 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

Urokinase (PLAU) Antibody (N-term) - Images



Western blot analysis of anti-PLAU Antibody (N-term) (Cat.#AP8161a) in mouse brain tissue lysates (35ug/lane). PLAU (arrow) was detected using the purified Pab.

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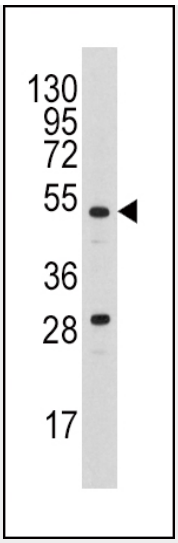
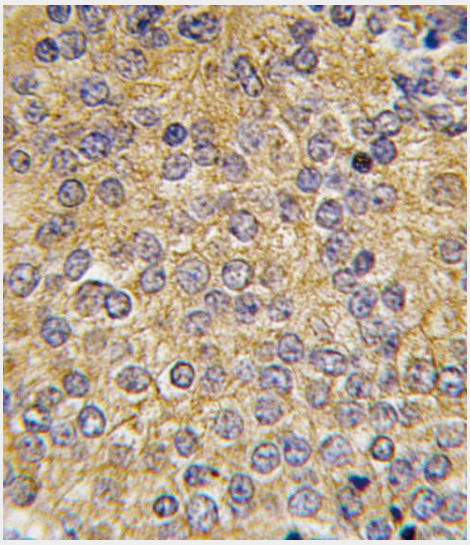


Western blot analysis of anti-PLAU Antibody (N-term) (Cat.#AP8161a) in A2058 cell line lysates (35ug/lane). PLAU (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with PLAU antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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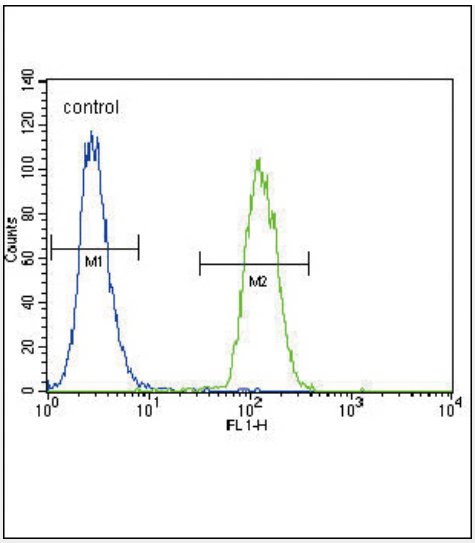

Urokinase (PLAU) Antibody (N-term) (Cat. #AP8161a) flow cytometric analysis of A2058 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Urokinase (PLAU) Antibody (N-term) - Background

PLAU, a member of the peptidase family S1, is a potent plasminogen activator and is clinically used for therapy of thrombolytic disorders. PLAU specifically cleaves the Arg-|-Val bond in plasminogen to form plasmin. The protein is found in high and low molecular mass forms. Each consists of two chains, A and B. The high molecular mass form contains a long chain A. Cleavage occurs after residue 155 in the low molecular mass form to yield a short A1 chain. The protein is used in Pulmonary Embolism (PE) to initiates fibrinolysis. Structurally, PLAU contains 1 EGF-like domain and 1 kringle domain.

Urokinase (PLAU) Antibody (N-term) - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Sperl, S., et al., Proc. Natl. Acad. Sci. U.S.A. 97(10):5113-5118 (2000). Turkmen, B., et al., Electrophoresis 18(5):686-689 (1997). Conne, B., et al., Thromb. Haemost. 77(3):434-435 (1997). Yoshimoto, M., et al., Biochim. Biophys. Acta 1293(1):83-89 (1996).

Urokinase (PLAU) Antibody (N-term) - Citations

- Suppression of tumor growth in H-ras12V liver cancer mice by delivery of programmed cell death protein 4 using galactosylated poly(ethylene glycol)-chitosan-graft-spermine.
- In vivo suppression of vein graft disease by nonviral, electroporation-mediated, gene transfer of tissue inhibitor of metalloproteinase-1 linked to the amino terminal fragment of urokinase (TIMP-1.ATF), a cell-surface directed matrix metalloproteinase inhibitor.
- A gene expression signature that distinguishes desmoid tumours from nodular fasciitis.