

For Research Use Only

# uPA/Urokinase Polyclonal antibody

Catalog Number: 17968-1-AP

Featured Product

47 Publications



## Basic Information

### Catalog Number:

17968-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11813

### GenBank Accession Number:

BC013575

### GeneID (NCBI):

5328

### UNIPROT ID:

P00749

### Full Name:

plasminogen activator, urokinase

### Calculated MW:

431 aa, 49 kDa

### Observed MW:

54 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** DU 145 cells, human brain tissue, A375 cells, HeLa cells, LNCaP cells

**IP:** HeLa cells,

**IHC:** human breast cancer tissue, human bowen disease, human lung tissue, human ovary tissue, human prostate cancer tissue, human skin tissue

**IF/ICC:** HeLa cells,

## Background Information

PLAU (Urokinase-type plasminogen activator) is also named as uPA and belongs to the peptidase S1 family. UPA initiates a proteolytic cascade, which degrades extracellular matrix during tissue growth and remodelling. The secreted proform of UPA is activated after binding to a specific high affinity cell surface receptor. Secreted UPA is exposed to rapid inactivation in the pericellular space by plasminogen activator inhibitor-1 (PAI-1), which is stored in the extracellular matrix bound to vitronectin (PMID:9665342). It has 2 isoforms produced by alternative splicing. Defects in PLAU are the cause of Quebec platelet disorder (QPD).

## Notable Publications

Author	Pubmed ID	Journal	Application
Lina Qiao	29113214	Oncol Lett	WB
Yukihiro Kohara	34534711	Bone	
Haiyan Fu, Yuan	34622165	iScience	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

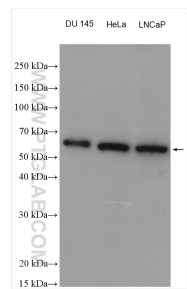
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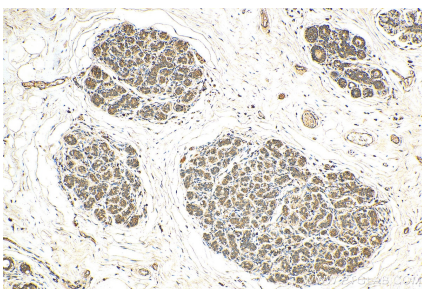
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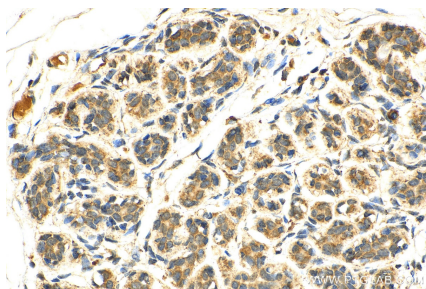
Selected Validation Data



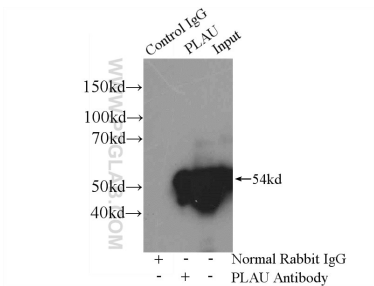
Various lysates were subjected to SDS PAGE followed by western blot with 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



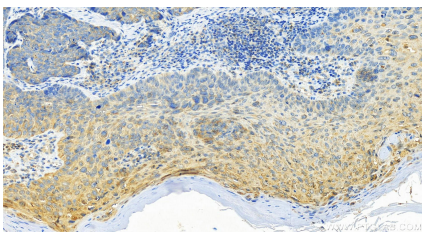
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



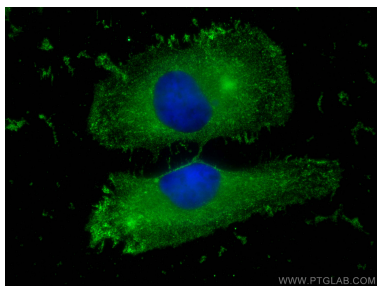
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-uPA/Urokinase (IP:17968-1-AP, 4ug; Detection:17968-1-AP 1:1000) with HeLa cells lysate 2800ug.



Immunohistochemical analysis of paraffin-embedded human bowen disease slide using 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using uPA/Urokinase antibody (17968-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).