

For Research Use Only

uPA/Urokinase Polyclonal antibody

Catalog Number: 17968-1-AP

Featured Product

48 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

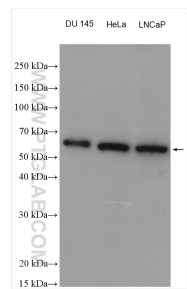
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

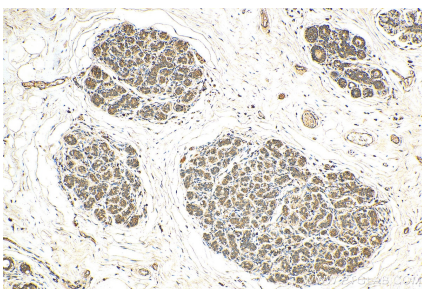
E: proteintech@ptglab.com
W: ptglab.com

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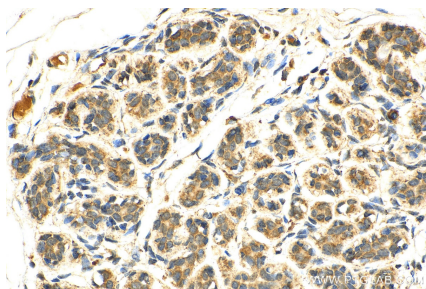
Selected Validation Data



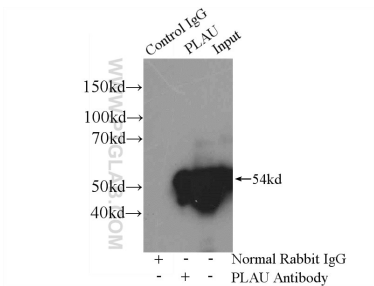
Various lysates were subjected to SDS PAGE followed by western blot with 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



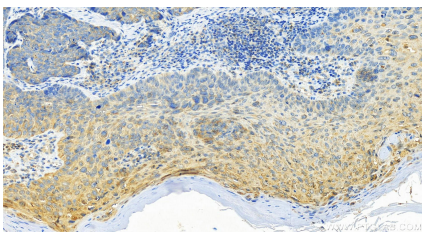
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



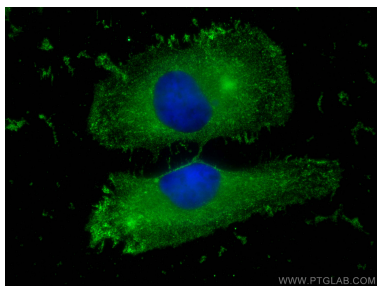
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17968-1-AP (uPA/Urokinase antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).