

For Research Use Only

# PAI-1 Polyclonal antibody

Catalog Number: 13801-1-AP **46 Publications**



## Basic Information

**Catalog Number:**

13801-1-AP

**Size:**

700 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4777

**GenBank Accession Number:**

BC010860

**GeneID (NCBI):**

5054

**UNIPROT ID:**

P05121

**Full Name:**

serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1

**Calculated MW:**

402 aa, 45 kDa

**Observed MW:**

45 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

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

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC, ColP

**Species Specificity:**

human, rat

**Cited Species:**

human, bovine

**Positive Controls:**

**WB:** HuH-7 cells, HepG2 cells, PC-12 cells, U2OS cells, human placenta tissue

**IP:** HepG2 cells,

**IHC:** human lung cancer tissue,

**IF:** HUVEC cells,

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

## Background Information

SERPINE1, also named as Plasminogen activator inhibitor type 1 (PAI-1), is a member of the serine protease inhibitor (SERPIN) superfamily. PAI-1 is the principal inhibitor of tPA and uPA, and hence is an inhibitor of fibrinolysis. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. In western blotting, we got two bands 50 kDa and 90-110 kDa, and 90-110 kDa consistent with PAI-1 in complex with its target protease, t-PA (PMID: 21596853).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yasuhiro Nanri	31505128	Am J Respir Cell Mol Biol	IHC
Zengqiang Miao	31734109	J Microbiol Immunol Infect	WB
Muhammad Khan	36389725	Front Immunol	IHC

## 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

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

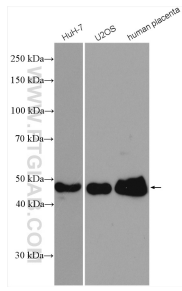
T: 4006900926

E: Proteintech-CN@ptglab.com

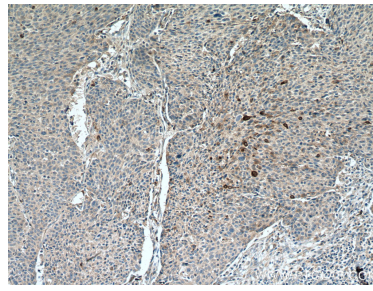
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

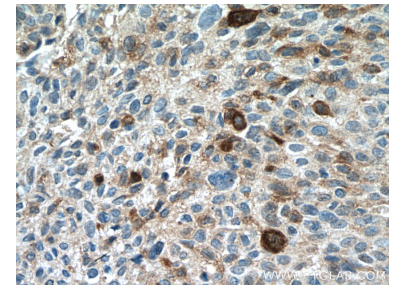
## Selected Validation Data



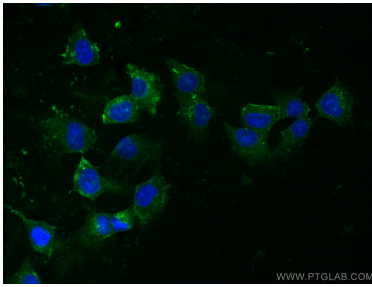
Various lysates were subjected to SDS PAGE followed by western blot with 13801-1-AP (PAI-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



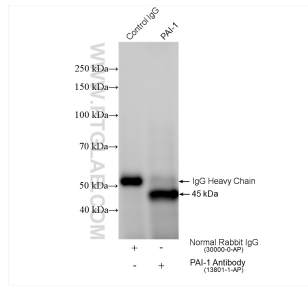
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 13801-1-AP (PAI-1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 13801-1-AP (PAI-1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HUVEC cells using PAI-1 antibody (13801-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-PAI-1 (IP:13801-1-AP, 4ug; Detection:13801-1-AP 1:2000) with HepG2 cells lysate 1360 ug.