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# PAI1 Rabbit mAb

**Catalog No.: A29361** Recombinant

## Basic Information

**Observed MW**
45 kDa

**Calculated MW**
43 kDa/45 kDa

**Category**
Primary antibody

**Applications**
WB,IP,IF/ICC,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC3971

## Background

This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. The protein also functions as a component of innate antiviral immunity. 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.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:2000 - 1:5000 |
| **IP** | 0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells |
| **IF/ICC** | 1:200 - 1:1000 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy. |

## Immunogen Information

**Gene ID**
5054

**Swiss Prot**
P05121

**Immunogen**
This information is considered to be commercially sensitive.

**Synonyms**
PAI; PAI1; PAI-1; PLANH1

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Contact


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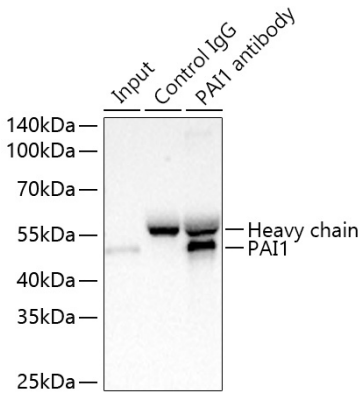
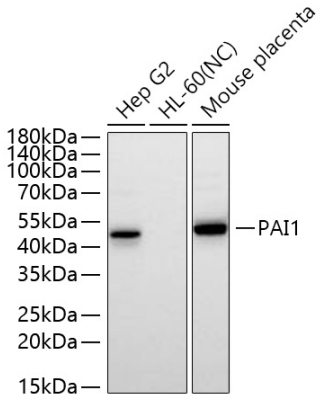
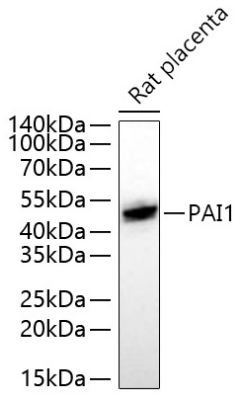
## Validation Data




Immunoprecipitation of PAI1 from 300 µg extracts of PUMC-HUVEC-T1 cells was performed using 2 µg of PAI1 Rabbit mAb (A29361). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using PAI1 Rabbit mAb (A29361) at a dilution of 1:1000.

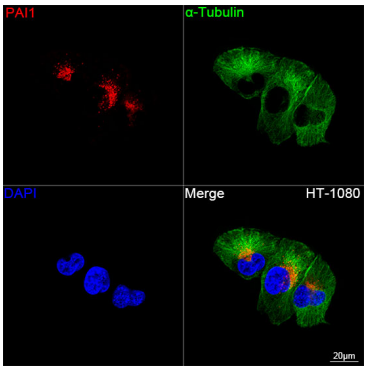



Western blot analysis of various lysates using PAI1 Rabbit mAb (A29361) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HL-60.
Exposure time: 45 s.




Western blot analysis of Rat placenta using PAI1 Rabbit mAb (A29361) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.

## Validation Data




Confocal imaging of HT-1080 cells using PAI1 Rabbit mAb (A29361, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.