

# Anti-PAI1 Antibody

Rabbit polyclonal antibody to PAI1 Catalog # AP61239

#### **Product Information**

ApplicationWB, IHCPrimary AccessionP05121Other AccessionP22777

**Reactivity** Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 45060

### **Additional Information**

Gene ID 5054

Other Names PAI1; PLANH1; Plasminogen activator inhibitor 1; PAI; PAI-1; Endothelial

plasminogen activator inhibitor; Serpin E1

**Target/Specificity** KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human PAI1. The exact sequence is proprietary.

**Dilution** WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/200) IHC~~WB (1/500 - 1/1000), IHC

(1/50 - 1/200)

**Format** Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30%

glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

#### **Protein Information**

Name SERPINE1

Synonyms PAI1, PLANH1

**Function** Serine protease inhibitor. Inhibits TMPRSS7 (PubMed: <u>15853774</u>). Is a

primary inhibitor of tissue-type plasminogen activator (PLAT) and

urokinase-type plasminogen activator (PLAU). As PLAT inhibitor, it is required

for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots (PubMed: 17912461, PubMed: 8481516,

PubMed:<u>9207454</u>, PubMed:<u>21925150</u>). As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading (PubMed:<u>9175705</u>). Acts as a regulator of cell migration, independently of its role as protease inhibitor (PubMed:<u>15001579</u>, PubMed:<u>9168821</u>). It is required for stimulation of keratinocyte migration during cutaneous injury repair (PubMed:<u>18386027</u>). It

is involved in cellular and replicative senescence (PubMed:16862142). Plays a role in alveolar type 2 cells senescence in the lung (By similarity). Is involved in the regulation of cementogenic differentiation of periodontal ligament stem cells, and regulates odontoblast differentiation and dentin formation during odontogenesis (PubMed:25808697, PubMed:27046084).

**Cellular Location** 

Secreted.

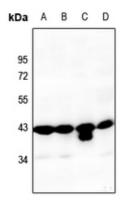
**Tissue Location** 

Expressed in endothelial cells (PubMed:2430793, PubMed:3097076). Found in plasma, platelets, and hepatoma and fibrosarcoma cells.

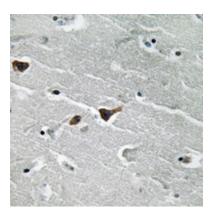
## **Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PAI1. The exact sequence is proprietary.

## **Images**



Western blot analysis of PAI1 expression in DLD (A), HepG2 (B), PMVEC (C), AML12 (D) whole cell lysates.



Immunohistochemical analysis of PAI1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.