

**Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody**  
**Plasminogen Activator Inhibitor 2 Antibody**  
**Catalog # ASR5467****Specification**

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**Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	This affinity purified antibody has been tested for use in ELISA, Immunochemistry, and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band 42-46.6 kDa in size corresponding to PAI-2 protein by western blotting in the appropriate cell lysate or extract.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to an internal area of human PAI-2 protein.
Preservative	0.01% (w/v) Sodium Azide

**Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody - Additional Information****Gene ID** 5055**Other Names**  
5055**Purity**

This affinity-purified antibody is directed against human PAI-2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity occurs against human PAI-2 protein. A BLAST analysis was used to suggest cross reactivity with PAI-2 proteins from several primates based on 94% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

### Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

## Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody - Protein Information

**Name** SERPINB2

**Synonyms** PAI2, PLANH2

### Function

Inhibits urokinase-type plasminogen activator. The monocyte derived PAI-2 is distinct from the endothelial cell-derived PAI-1.

### Cellular Location

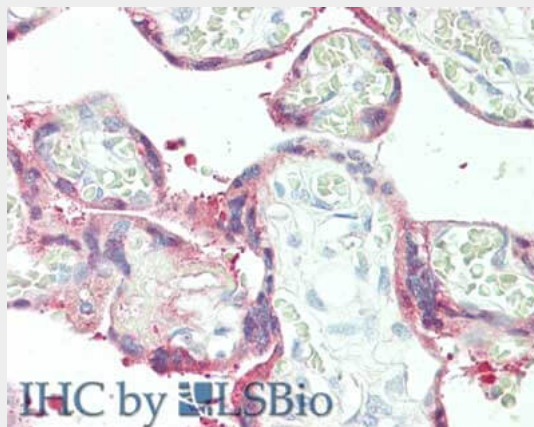
Cytoplasm. Secreted, extracellular space.

## Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody - Images



Immunohistochemistry of rabbit anti-Plasminogen Activator 2 antibody. Tissue: heart. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Plasminogen Activator 2 at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Plasminogen Activator II as precipitated red signal with hematoxylin purple nuclear counterstain.

## Anti-Plasminogen Activator Inhibitor 2 (RABBIT) Antibody - Background

Extracellular plasminogen activator inhibitor type-2 (also known as PAI-2, Placental plasminogen activator inhibitor; Monocyte Arg-serpin; Urokinase inhibitor; SERPINB2 serpin peptidase inhibitor, clade B (ovalbumin), member 2) is a coagulation factor and a potent inhibitor of urokinase-type plasminogen activator (u-PA) and also acts as a multifunctional protein. It is present in most cells, especially monocytes and macrophages. PAI-2 exists in two forms, a 60-kDa, secreted, extracellular, glycosylated form and a 43-kDa intracellular form. It is a multifunctional protein that plays a role in cell differentiation, in prevention of programmed cell death, in the regulation of cell proliferation, in the inhibition of microbial proteinases and in the protection against stromal degradation. High levels of the PAI-2 protein are associated with a good prognosis in breast cancer, small cell lung, ovarian cancer, and inhibition of metastasis. PAI-2 also plays a role in inflammation on the surface of the eye. PAI-2 may cooperate with pRb2/p130 in modulating PAI-2 gene expression by chromatin remodeling.