

Datasheet for ABIN349627

## anti-SERPINB2 antibody (Internal Region)



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1 Publication

### Overview

Quantity:	100 µg
Target:	SERPINB2
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

### Product Details

Purpose:	Plasminogen Activator Inhibitor 2 Antibody
Immunogen:	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. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity-purified antibody is directed against human PAI-2 protein.
Characteristics:	Synonyms: rabbit anti-PAI-2 antibody, rabbit anti-plasminogen activator inhibitor 2 antibody, Placental plasminogen activator inhibitor, Monocyte Arg-serpin, Urokinase inhibitor, SERPINB2, Serpin B2, serpin peptidase inhibitor, PAI2, PLANH2
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

## Target Details

Target:	SERPINB2
Alternative Name:	SERPINB2 ( <a href="#">SERPINB2 Products</a> )
Target Type:	Amino Acid
Background:	<p>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.</p>
Gene ID:	5055, 4505595
UniProt:	<a href="#">P05120</a>
Pathways:	<a href="#">Autophagy</a>

## Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 10 µg/mL</p> <p>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.</p> <p>Western Blot Dilution: 1:500 - 1:2,000</p> <p>ELISA Dilution: 1:100,000 - 150,000</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
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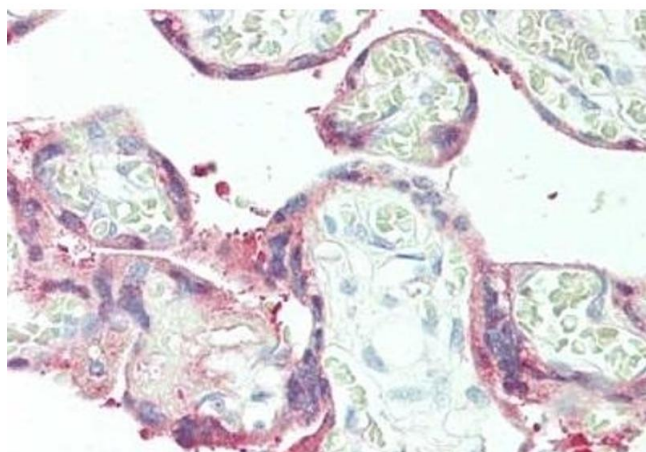
## Handling

Concentration:	1.2 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	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.
Expiry Date:	12 months

## Publications

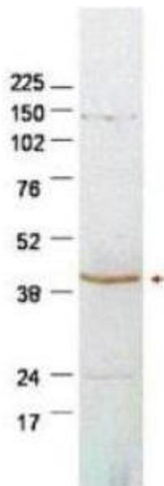
Product cited in:	Godtfredsen, Sidelmann, Dolleris, Jørgensen, Johansen, Pedersen, Palarasah, Gram: "Fibrinolytic Changes in Women with Preeclampsia." in: <b>Clinical and applied thrombosis/hemostasis : official journal of the International Academy of Clinical and Applied Thrombosis/Hemostasis</b> , Vol. 28, pp. 10760296221126172, (2022) ( <a href="#">PubMed</a> ).
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## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry of rabbit anti-Plasminogen Activator 2 antibody (ABIN349627). 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.



### Western Blotting

**Image 2.** Western blot using affinity purified anti-PAI-2 antibody shows detection of endogenous PAI-2 in 50  $\mu$ g of HeLa whole cell lysates. The band at ~42 kDa (arrowhead) corresponds to PAI-2. Faint non-specific bands are also noted at lower and higher molecular weights positions. Primary antibody was used at a 1:500 dilution in 5% BLOTTO in PBS reacted overnight at 4°C. The membrane was washed and reacted with a 1:5,000 dilution of HRP-conjugated Gt-a-Rabbit IgG for 45 min at room temperature with ECL used for detection. Molecular weight estimation was made by comparison to prestained MW markers. Personal communication, Luca D'Agostino, Temple University, Philadelphia, PA