Datasheet for ABIN349627

anti-SERPINB2 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	SERPINB2
Binding Specificity:	Internal Region
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SERPINB2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

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: Peptide
Isotype:	IgG
Specificity:	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.
Cross-Reactivity:	Monkey
Characteristics:	Extracellular plasminogen activator inhibitor type-2 (also known as PAI-2, Placental

Product Details

	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.
Purification:	affinity purified
Sterility:	Sterile filtered

Target Details

Target:	SERPINB2
Alternative Name:	Plasminogen Activator Inhibitor 2 (SERPINB2 Products)
Target Type:	Amino Acid
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. Synonyms: PAI-2, Placental plasminogen activator inhibitor; Monocyte Arg-serpin; Urokinase inhibitor; SERPINB2 serpin peptidase inhibitor, clade B (ovalbumin), member 2
Gene ID:	5055, 4505595

Target Details

UniProt:	P05120
Pathways:	Autophagy

Application Details

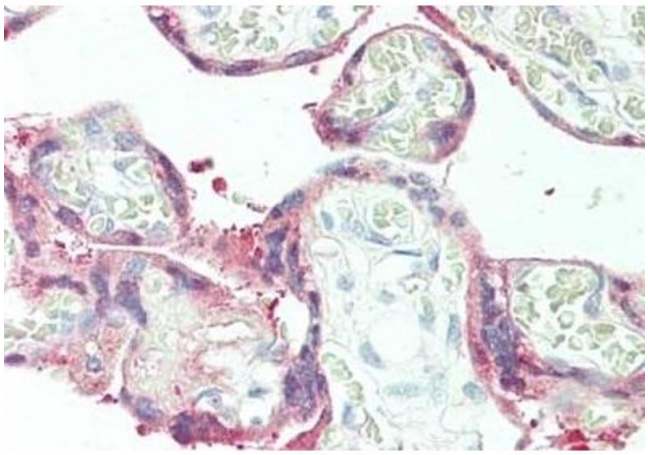
Application Notes:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band 42-46.6 kDa in size corresponding to PAI-2 protein by western blotting in the appropriate cell lysate or extract.
Comment:	Gene Name: SERPINB2
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.2 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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. Expiration date is three (3) months from date of opening.
Expiry Date:	3 months

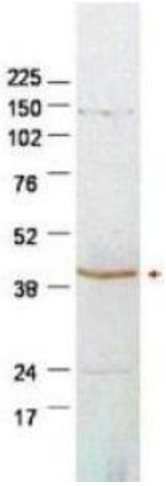
Publications

Product cited in:	Porchet, Probst, Dráberová, Dráber, Riederer, Riederer: "Differential subcellular localization of phosphorylated neurofilament and tau proteins in degenerating neurons of the human entorhinal cortex." in: **Neuroreport**, Vol. 14, Issue 7, pp. 929-33, (2003) (PubMed).



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 µg 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

