

**SERPINA5 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16092a****Specification**

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**SERPINA5 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P05154</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	45675
Antigen Region	5-33

**SERPINA5 Antibody (N-term) - Additional Information****Gene ID** 5104**Other Names**

Plasma serine protease inhibitor, Acrosomal serine protease inhibitor, Plasminogen activator inhibitor 3, PAI-3, PAI3, Protein C inhibitor, PCI, Serpin A5, SERPINA5, PCI, PLANH3, PROCI

**Target/Specificity**

This SERPINA5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-33 amino acids from the N-terminal region of human SERPINA5.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SERPINA5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SERPINA5 Antibody (N-term) - Protein Information****Name** SERPINA5**Synonyms** PCI, PLANH3, PROCI

**Function** Heparin-dependent serine protease inhibitor acting in body fluids and secretions. Inactivates serine proteases by binding irreversibly to their serine activation site. Involved in the regulation of intravascular and extravascular proteolytic activities. Plays hemostatic roles in the blood plasma. Acts as a procoagulant and pro-inflammatory factor by inhibiting the anticoagulant activated protein C factor as well as the generation of activated protein C factor by the thrombin/thrombomodulin complex. Acts as an anticoagulant factor by inhibiting blood coagulation factors like prothrombin, factor XI, factor Xa, plasma kallikrein and fibrinolytic enzymes such as tissue- and urinary-type plasminogen activators. In seminal plasma, inactivates several serine proteases implicated in the reproductive system. Inhibits the serpin acrosin; indirectly protects component of the male genital tract from being degraded by excessive released acrosin. Inhibits tissue- and urinary-type plasminogen activator, prostate-specific antigen and kallikrein activities; has a control on the sperm motility and fertilization. Inhibits the activated protein C- catalyzed degradation of SEMG1 and SEMG2; regulates the degradation of semenogelin during the process of transfer of spermatozoa from the male reproductive tract into the female tract. In urine, inhibits urinary- type plasminogen activator and kallikrein activities. Inactivates membrane-anchored serine proteases activities such as MPRSS7 and TMPRSS11E. Inhibits urinary-type plasminogen activator-dependent tumor cell invasion and metastasis. May also play a non-inhibitory role in seminal plasma and urine as a hydrophobic hormone carrier by its binding to retinoic acid.

#### **Cellular Location**

Secreted, extracellular space. Note=Localized on the plasma membrane overlying the acrosomal head of spermatozoa of ependymal spermatozoa and ejaculated sperm. Localized at the equatorial segment of acrosome-reacted spermatozoa. Localized in alpha granules in resting platelets and on the external plasma membrane and within the surface-connected cannalicular system in activated platelets

#### **Tissue Location**

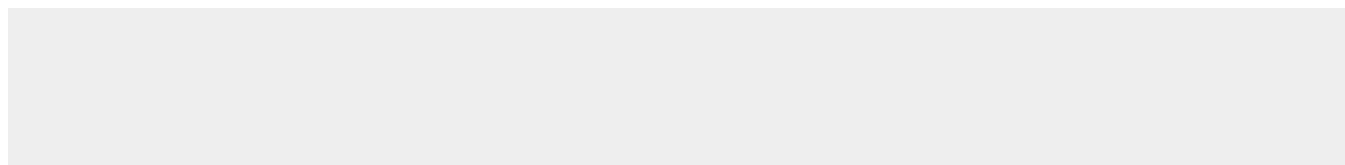
Predominantly expressed in the epithelium of seminal vesicles. Expressed in the proximal tubular epithelium of the kidney. Expressed in the superficial and more differentiated epidermal keratinocytes of the skin. Expressed in megakaryocytes and platelets Expressed poorly in kidney tumor cells compared to non tumor kidney tissues. Expressed in spermatozoa. Present in very high concentration in seminal plasma. Present in high concentration in plasma, synovial and Graaf follicle fluids. Present in low concentration in breast milk and in amniotic fluids. Present in very low concentration in urine, cerebrospinal fluids, saliva and tears (at protein level). Strongly expressed in liver. Expressed in kidney, spleen, pancreas, skeletal muscle, heart, testes, ovary, interstitial Leydig cells, epididymal glands, seminal vesicles and prostate.

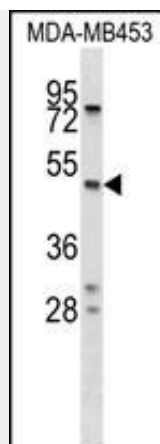
#### **SERPINA5 Antibody (N-term) - Protocols**

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](#)

#### **SERPINA5 Antibody (N-term) - Images**





SERPINA5 Antibody (N-term) (Cat. #AP16092a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the SERPINA5 antibody detected the SERPINA5 protein (arrow).

#### **SERPINA5 Antibody (N-term) - Background**

SERPINA5 inhibits activated protein C as well as plasminogen activators.

#### **SERPINA5 Antibody (N-term) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Blomstrand, D., et al. Ann Vasc Surg 24(5):588-595(2010)  
Bungum, M., et al. Fertil. Steril. 93(1):277-279(2010)  
Malmstrom, E., et al. PLoS Pathog. 5 (12), E1000698 (2009) :  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)