

SERPINA1(Short peptide from AAT) Antibody (C-term) Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5330

### **Specification**

## SERPINA1(Short peptide from AAT) Antibody (C-term) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Isotype Antigen Source WB,E <u>P01009</u> Human Rabbit polyclonal H=47 KDa Rabbit IgG HUMAN

### SERPINA1(Short peptide from AAT) Antibody (C-term) - Additional Information

Gene ID 5265

Antigen Region 390-418

### **Other Names**

Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, Short peptide from AAT, SPAAT, SERPINA1, AAT, PI

Dilution WB~~1:1000

#### **Target/Specificity**

This SERPINA1(Short peptide from AAT) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 390-418 amino acids from the C-terminal region of human SERPINA1(Short peptide from AAT).

#### 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**

SERPINA1(Short peptide from AAT) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### SERPINA1(Short peptide from AAT) Antibody (C-term) - Protein Information



Name SERPINA1 (<u>HGNC:8941</u>)

Synonyms AAT, PI

Function

Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

#### **Cellular Location**

Secreted. Endoplasmic reticulum. Note=The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum

**Tissue Location** 

Ubiquitous. Expressed in leukocytes and plasma.

## SERPINA1(Short peptide from AAT) Antibody (C-term) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### SERPINA1(Short peptide from AAT) Antibody (C-term) - Images



Western blot analysis of lysates from human plasma,human liver tissue lysate (from left to right), using SERPINA1(Short peptide from AAT) Antibody (C-term)(Cat. #AW5330). AW5330 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.



# SERPINA1(Short peptide from AAT) Antibody (C-term) - Background

Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

# SERPINA1(Short peptide from AAT) Antibody (C-term) - References

Bollen A., et al.DNA 2:255-264(1983). Long G.L., et al.Biochemistry 23:4828-4837(1984). Rosenberg S., et al.Nature 312:77-80(1984). Ciliberto G., et al.Cell 41:531-540(1985). Nukiwa T., et al.J. Biol. Chem. 261:15989-15994(1986).