

## **SERPINA10 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59181

### **Specification**

# **SERPINA10 Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, E

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW

Rabbit
Polyclonal
48 KDa

Physical State
Liquid
Immunogen
KLH conjugated synthetic peptide derived

from human ZPI/SERPINA10

Epitope Specificity 251-350/444

Isotype IgG

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted.

SIMILARITY Belongs to the serpin family.

Post-translational modifications Phosphorylation sites are present in the

extracelllular medium.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

# **Background Descriptions**

affinity purified by Protein A

ZPI, also known as SERPINA10 (serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10) or PZI, is a 444 amino acid secreted protein that functions as a Protein Z-dependent protease inhibitor. Expressed by the liver, ZPI is secreted into the plasma where, in the presence of calcium, Protein Z and phospholipids, it inhibits the activated pro-coagulation factors X and XI (Factor X and Factor XI). This inhibition helps properly regulate intravenous blood clotting. ZPI, a member of the serpin protein family, contains five potential N-linked glycosylation sites and a tyrosine at position 387 which, when disrupted, renders ZPI inactive. Defects in the gene encoding ZPI may increase susceptibility to venous thrombosis, the formation of blood clots within a vein.

### **SERPINA10 Polyclonal Antibody - Additional Information**

**Gene ID 51156** 

**Other Names** 

Protein Z-dependent protease inhibitor, PZ-dependent protease inhibitor, PZI, Serpin A10, SERPINA10, ZPI

**Target/Specificity** 



Expressed by the liver and secreted in plasma.

### **Dilution**

```
<span class ="dilution_WB">WB~~1:1000</span><br \> <span class
="dilution_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution_IF">IF~~1:50~200</span><br \> <span class ="dilution_E">E~~N/A</span>
```

### **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## **SERPINA10 Polyclonal Antibody - Protein Information**

Name SERPINA10

Synonyms ZPI

#### **Function**

Inhibits activity of the coagulation protease factor Xa in the presence of PROZ, calcium and phospholipids. Also inhibits factor XIa in the absence of cofactors.

# **Cellular Location**

Secreted.

#### **Tissue Location**

Expressed by the liver and secreted in plasma.

# **SERPINA10 Polyclonal 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 Cytomety
- Cell Culture

## SERPINA10 Polyclonal Antibody - Images