

# alpha-1-antitrypsin Antibody (internal region, near N-Term)

Peptide-affinity purified goat antibody Catalog # AF4044a

## **Specification**

## alpha-1-antitrypsin Antibody (internal region, near N-Term) - Product Information

Application WB, E
Primary Accession P01009

Other Accession NP 000286.3, 5265

Reactivity
Host
Clonality
Concentration
Goat
Concentration

Isotype IgG
Calculated MW 46737

## alpha-1-antitrypsin Antibody (internal region, near N-Term) - Additional Information

### **Gene ID 5265**

### **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

E~~N/A

#### **Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

alpha-1-antitrypsin Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## alpha-1-antitrypsin Antibody (internal region, near N-Term) - Protein Information

Name SERPINA1 (HGNC:8941)

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**

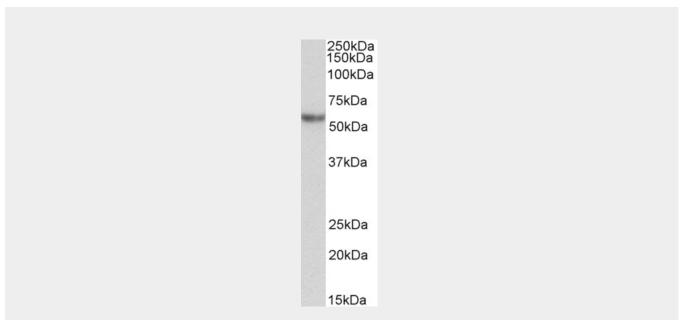
Ubiquitous. Expressed in leukocytes and plasma.

## alpha-1-antitrypsin Antibody (internal region, near N-Term) - Protocols

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

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

## alpha-1-antitrypsin Antibody (internal region, near N-Term) - Images

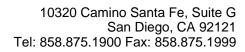


EB1279(0.3  $\mu$ g/ml) staining of Albumin-depleted Human Plasma lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### alpha-1-antitrypsin Antibody (internal region, near N-Term) - Background

The immunizing peptide represents the N terminus of the mature protein. Reported variants represent identical protein: NP\_001121174.1, NP\_001121179.1, NP\_001121172.1, NP\_001121177.1, NP\_001121178.1, NP\_001121176.1, NP\_001121175.1, NP\_000286.3, NP\_00112117

### alpha-1-antitrypsin Antibody (internal region, near N-Term) - References





Folding mechanism of the metastable serpin ?1-antitrypsin. Tsutsui Y, Dela Cruz R, Wintrode PL. Proc Natl Acad Sci U S A. 2012 Mar 20;109(12):4467-72. PMID: 22392975