

**alpha-1-antitrypsin Antibody (internal region, near N-Term)**  
Peptide-affinity purified goat antibody  
Catalog # AF4044a

**Specification**

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

Application	WB
Primary Accession	<a href="#">P01009</a>
Other Accession	<a href="#">NP_000286.3</a> , <a href="#">5265</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
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

**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](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

EB1279(0.3 µg/ml) staining of Albumin-depleted Human Plasma lysate (35 µg 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  $\alpha$ 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