

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
Primary Accession	P01009
Other Accession	NP_000286.3 , 5265
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 α 1-antitrypsin. Tsutsui Y, Dela Cruz R, Wintrobe PL. Proc Natl Acad Sci U S A. 2012 Mar 20;109(12):4467-72. PMID: 22392975