

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
Host
Clonality
Concentration
Sotyne
Goat
Polyclonal
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

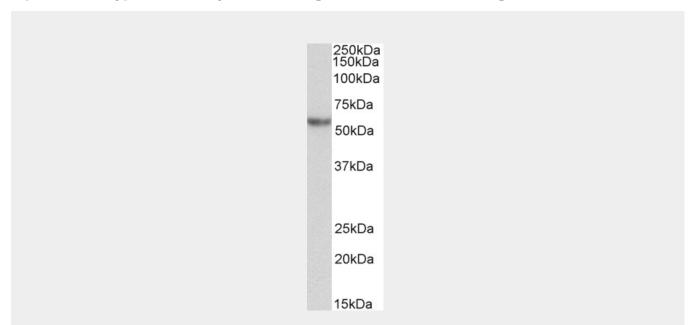
Ubiquitous. Expressed in leukocytes and plasma.

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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

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



EB1279(0.3 μ g/ml) staining of Albumin-depleted Human Plasma lysate (35 μ 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_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