

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody Alpha-1-Anti-Trypsin Antibody Catalog # ASR3912

Specification

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody - Product Information

Host Conjugate Target Species Reactivity Clonality Application Application Note	Goat Unconjugated Human Human Polyclonal WB, E, I, LCI Anti-Alpha-1-Anti-trypsin Antibody has been tested by ELISA and western blot. This product has been assayed against 1.0 ug of Alpha-1-Anti-trypsin [Human Plasma] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Goat) code #611-1302 and (ABTS (2 ,2'-azino-bis-[3-ethylbenthiazoline-6-sulfon ic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:2,000 to 1:10,000 of the reconstitution concentration is suggested.
Physical State Buffer	Lyophilized 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	a1-Anti-Trypsin [Human Plasma]
Reconstitution Volume	100 μL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody - Additional Information

Gene ID 5265

Other Names 5265

Purity

Anti-ALPHA-1-ANTI-TRYPSIN is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified a1-Anti-Trypsin [Human Plasma]. Cross reactivity against a1-Anti-Trypsin from other sources is unknown.

Storage Condition



Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody - Protein Information

Name SERPINA1 (HGNC:8941)

Synonyms AAT, Pl

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.

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody - Protocols

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

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

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody - Images

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody - Background

Alpha-1-Antitrypsin (AAT) is an inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. It 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. Short peptide from AAT is reversible chymotrypsin inhibitor. It also inhibits elastase, but not trypsin. Its major physiological function is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE).