

**Anti-ALPHA-1-ANTI-TRYPSIN (RABBIT) Antibody**  
**Alpha-1-Anti-Trypsin Antibody**  
**Catalog # ASR5161****Specification**

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**Anti-ALPHA-1-ANTI-TRYPSIN (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Human ALPHA-1-ANTI-TRYPSIN Antibody has been tested by ELISA, and western blot. This product is assayed against 1.0 µg of Human Alpha-1-anti-Trypsin in a standard ELISA using Peroxidase conjugated Affinity Purified Donkey anti-Rabbit IgG and TMB as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:50,000 is suggested for this product.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Human Alpha-1-anti-Trypsin
Preservative	0.01% (w/v) Sodium Azide

**Anti-ALPHA-1-ANTI-TRYPSIN (RABBIT) Antibody - Additional Information****Gene ID** 5265**Other Names**  
5265**Purity**

Anti-Human ALPHA-1-ANTI-TRYPSIN Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using antigen resins attached to a solid phase. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Analysis by SDS-PAGE was used to determine that this preparation is substantially free of aggregates and shows a banding pattern consistent with purified Rabbit IgG.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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 (RABBIT) Antibody - 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.

## Anti-ALPHA-1-ANTI-TRYPSIN (RABBIT) Antibody - 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](#)

## Anti-ALPHA-1-ANTI-TRYPSIN (RABBIT) Antibody - Images

## Anti-ALPHA-1-ANTI-TRYPSIN (RABBIT) Antibody - Background

ALPHA-1-ANTI-TRYPSIN Antibody is specific for alpha-1-anti-trypsin. Alpha 1-Antitrypsin or  $\alpha$ 1-antitrypsin (A1AT) is a protease inhibitor belonging to the serpin superfamily and is generally known as serum trypsin inhibitor. Alpha-1-anti-trypsin protects tissues from enzymes of inflammatory cells. A1AT antibody is suitable for immunology and cardiovascular researcher.