

Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody Biotin Conjugated
Alpha-1-Anti-Trypsin Antibody Biotin Conjugated
Catalog # ASR4022

Specification

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

Host	Goat
Conjugate	Biotin
FP Value	10-20
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	Anti-Alpha-1-Anti-Trypsin has been tested by ELISA and western blot. This product is assayed against 1.0 ug of a-1-anti-Trypsin in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethyl benthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:8,000 to 1:29,000 of the reconstitution concentration is suggested for this product.
Physical State	Lyophilized
Buffer	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)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide

**Anti-ALPHA-1-ANTI-TRYPSIN (Human Plasma) (GOAT) Antibody Biotin Conjugated -
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-Biotin, anti-Goat Serum as

well as purified and partially purified a-1-anti-Trypsin [Human Plasma]. Cross reactivity against a-1-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 Biotin Conjugated - 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 (Human Plasma) (GOAT) Antibody Biotin Conjugated - 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 (Human Plasma) (GOAT) Antibody Biotin Conjugated - Images

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

A member of the serpin family, Anti-Alpha-1-Anti-Trypsin inhibits serine proteases. With a moderate affinity for plasmin and thrombin, Anti-Alpha-1-Anti-Trypsin antibody mainly targets elastase. It inhibits trypsin, chymotrypsin and plasminogen activator by inhibiting insulin-induced

NO synthesis. It also decreases coagulation time and has proteolytic activity against insulin and plasmin. The short peptide from AAT also targets elastase, but not trypsin. Anti-Alpha-1-Anti-Trypsin is ideal for researchers involved in Metabolism, Cancer, and Cardiovascular research.