

## Anti-Alpha-1-Trypsin SERPINA1 Antibody Peroxidase Conjugated

Catalog Number: H00720

### About SERPINA1

Anti-Alpha 1-Anti-Trypsin Antibody detects a1-Anti-Trypsin protein. a1-Anti-Trypsin is an inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Anti-Trypsin irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form of Antitrypsin inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin. Defects in SERPINA1 are the cause emphysema, liver cirrhosis and liver failure. Environmental factors, particularly cigarette smoking, greatly increase the risk of emphysema at an earlier age. Anti-Alpha-1-Anti-Trypsin Antibody is ideal for investigators involved in Cell Signaling, Signal Transduction and Cancer research.

### Overview

Product Name	Anti-Alpha-1-Trypsin SERPINA1 Antibody Peroxidase Conjugated
Reactive Species	Human
Description	Boster Bio Anti-Alpha-1-Trypsin SERPINA1 Antibody Peroxidase Conjugated (Catalog # H00720). Tested in ELISA, WB applications. This antibody reacts with Human.
Conjugate	HRP
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free, 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Storage Instructions	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. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Goat
Uniprot ID	P01009

### Technical Details

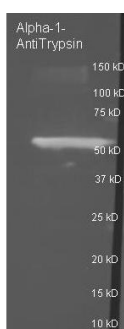
Immunogen	Anti-alpha 1 Anti-Trypsin Antibody was produced by repeated immunizations with native alpha1-Anti-Trypsin protein from human plasma.
Predicted Reactive Species	Bovine, Canine, Equine, Guinea Pig, Pig, Rabbit, Zebrafish
Isotype	IgG

Form	Lyophilized
Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	Anti-alpha-1-Anti-Trypsin Antibody 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-Peroxidase, 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.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:1,000 - 1:5,000</p> <p>IHC: 1:200 - 1:1,000</p> <p>WB: 1:500 - 1:2,500</p>

## Anti-Alpha-1-Trypsin SERPINA1 Antibody Peroxidase Conjugated (H00720) Images



Western blot analysis of Alpha-1-Anti-Trypsin expression in reduced Alpha-1-Anti-Trypsin using peroxidase conjugated goat anti-Alpha-1-Anti-Trypsin polyclonal antibody (Catalog # H00720) at 1:3000. Load: 1



Western Blot analysis of peroxidase conjugated goat anti-Alpha-1-Anti-Trypsin polyclonal antibody (Catalog # H00720) at 1:400. Lane 1: molecular weight. Lane 2: Goat-anti-Alpha-1-Anti-Trypsin (red), Rabbit anti-Transferrin, and Mouse-a-GST. Load: 35

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