

Datasheet for 600-401-147**Alpha-1-Anti-Trypsin Antibody****Overview**

Description:	Anti-Alpha-1-Anti-Trypsin (RABBIT) Antibody - 600-401-147
Item No.:	600-401-147
Size:	1 mg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	ALPHA-1-ANTI-TRYPSIN Antibody is specific for alpha-1-anti-trypsin. Alpha 1-Antitrypsin or α 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.
Synonyms:	rabbit anti-alpha-1-antitrypsin antibody, A1A antibody, A1AT, AAT, Alpha 1 antiproteinase antibody, Alpha 1 antitrypsin, Alpha 1 protease inhibitor, alpha-1-AT antibody, alpha1 PI antibody, alpha1 proteinase inhibitor antibody, Serpin A1, Anti- α -1-antitrypsin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SERPINA1
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Human Alpha-1-anti-Trypsin

Purity/Specificity: 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.

Relevant Links:

- [NCBI - NP_000286.3](#)
- [UniProtKB - P01009](#)
- [GeneID - 5265](#)

Application Details

Tested Applications: ELISA, WB

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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:600,000

IHC: 1:500 - 1:2,500

WB: 1:2,000 - 1:10,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.3 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

Shipping & Handling

Shipping Condition: Dry Ice

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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Anti-Trypsin Polyclonal Antibody-Multiplex Fluorescent Western blot. Lane 1: molecular weight. Lane 2: Alpha-1-Anti-Trypsin (red), Rabbit anti-Transferrin (green), and Mouse-a-GST (blue) were used in a multiplex system to detect target proteins under reducing conditions in albumin depleted human serum with 320 ng of added GST. Load: 35 µg per lane. Primary antibody: Each primary antibody at 1:1000 for overnight at 4°C. Secondary antibody: Donkey anti-Rabbit IgG DyLight 549 (p/n 611-742-127), Donkey anti-Mouse IgG DyLight 488 (p/n 610-741-002), and Donkey anti-Goat IgG DyLight 649 (p/n 605-743-002) secondary antibody at 1:10,000 for 30 min at RT. Block: (p/n MB-070) at 30 min RT.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.