

## Goat alpha 1 Trypsin Polyclonal Antibody | anti-SERPINA1 antibody

alpha 1 Trypsin antibody

|                              |                     |                                            |
|------------------------------|---------------------|--------------------------------------------|
| CATALOG #<br><b>AAA74945</b> | HOST<br><b>Goat</b> | APPLICATIONS<br><b>Western Blot, ELISA</b> |
|------------------------------|---------------------|--------------------------------------------|

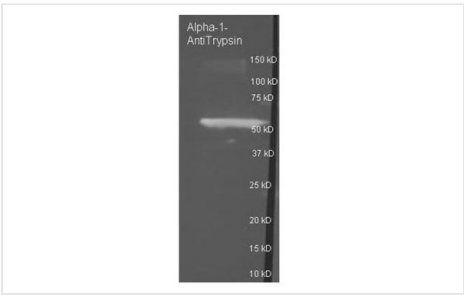
### PRODUCT SYNONYMS

alpha 1 Trypsin; Polyclonal Antibody; alpha 1 Trypsin antibody; Polyclonal alpha 1 Trypsin; Anti-alpha 1 Trypsin; alpha Trypsin-1; A1AT; alpha Trypsin 1; alpha 1 antiproteinase; AAT; alpha 1 antitrypsin; alpha 1 protease inhibitor antibody; anti-SERPINA1 antibody

### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Goat                                                                                                                                                                                                                                                                                            |
| Clonality                                          | Polyclonal                                                                                                                                                                                                                                                                                      |
| Specificity                                        | human alpha-1-trypsin                                                                                                                                                                                                                                                                           |
| Purity/Purification                                | Alpha 1 Trypsin antibody was purified by ion exchange chromatography followed by dialysis.                                                                                                                                                                                                      |
| Form/Format                                        | Lyophilized from 20mM Potassium Phosphate, pH7.2, with 150mM Sodium Chloride, and 0.01% NaN <sub>3</sub> . Reconstitute with deionized water (or equivalent).                                                                                                                                   |
| Concentration                                      | 100ug, Lyophilized (varies by lot)                                                                                                                                                                                                                                                              |
| Sequence Length                                    | 418                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-SERPINA1 antibody | WB (Western Blot), ELISA                                                                                                                                                                                                                                                                        |
| Biological Significance                            | Alpha 1-Antitrypsin or alpha1-antitrypsin (A1AT) is a protease inhibitor belonging to the serpin superfamily. It is generally known as serum trypsin inhibitor. Alpha 1-antitrypsin is also referred to as alpha-1 proteinase inhibitor (A1PI) because it inhibits a wide variety of proteases. |
| Biohazard Information                              | This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.                                                                                                                                |
| Immunogen                                          | a1-Ati-Trypsin (Human Plasma)                                                                                                                                                                                                                                                                   |
| Cross Reactivity                                   | Human                                                                                                                                                                                                                                                                                           |
| Preparation and Storage                            | Ships ambient or refrigerated/frozen. Upon receipt store at 4°C prior to restoration. After reconstituted , store at 4°C short term, or aliquot and freeze at -20°C or below for long term storage. Avoid repeat freeze-thaws.                                                                  |

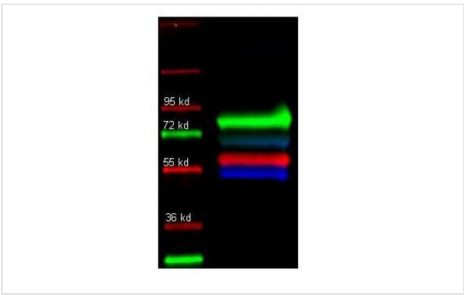
IMAGES



**WB (Western Blot)**  
Western Blot of alpha 1 Antitrypsin antibody.Lane 1: alpha 1 Antitrypsin under reducing conditions.Lane 2: none. Load: 1 ug per lane. alpha 1 Antitrypsin antibody at 1:3000 for overnight at 4 deg C. Dylight 488 conjugated Donkey anti Goat secondary antibody at 1:10,000 for 45 min at RT. Block: Blocking buffer overnight at 4 deg C. Size: 55kDa for a-1 Anti-Trypsin.



**WB (Western Blot)**  
Western Blot of Trypsin antibody-Multiplex Fluorescent Western blot.Lane 1: molecular weight.Lane 2: alpha 1 Antitrypsin (red), Transferrin, and Mouse anti GST 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 ug per lane. Each primary antibody at 1:1000 for overnight at 4 deg C. DyLight549 Donkey anti-Rabbit IgG (green), DyLight 488 Donkey anti-Mouse IgG (blue), and DyLight 649 Donkey anti-Goat IgG (red) secondary antibody at 1:10,000 for 30 min at RT. Block: Blocking buffer at 30 min RT



**WB (Western Blot)**  
Western Blot of Alpha 1 anti trypsin antibody.Lane 1: molecular weight.Lane 2: Human transferrin (green); Alpha 1 anti trypsin (red); and Human IgG (Blue) in a multiplex fluorescent western blot of human serum. Load: 35 ug per lane. Each primary antibody was diluted to 1:1000 for overnight at 4°C. Rabbit IgG (H&L) antibody DyLight649 Conjugated (green), Goat IgG (H&L) antibody DyLight549 Conjugated (red), Mouse IgG (H&L) antibody DyLight488 Conjugated (blue)secondary antibody at 1:10,000 for ~ 1hr at 4 degrees. Block: IRdye blocking buffer overnight at 4 deg C

ADDITIONAL INFORMATION

|                                                      |                                  |
|------------------------------------------------------|----------------------------------|
| Product Categories/Family for anti-SERPINA1 antibody | Proteases; Inhibitors; & Enzymes |
|------------------------------------------------------|----------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 177831                                                                                         |
| NCBI GeneID                      | 5265                                                                                           |
| UniProt Accession #              | P01009; Q0PVP5; Q13672; Q53XB8; Q5U0M1; Q7M4R2; Q86U18; Q86U19; Q96BF9; Q96ES1; A6PX14; B2RDQ8 |
| NCBI Official Full Name          | alpha-1-antitrypsin                                                                            |
| NCBI Official Synonym Full Names | serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1            |
| NCBI Official Symbol             | SERPINA1                                                                                       |
| NCBI Official Synonym Symbols    | PI; A1A; AAT; PI1; A1AT; PRO2275; alpha1AT                                                     |
| NCBI Protein Information         | alpha-1-antitrypsin                                                                            |
| UniProt Protein Name             | Alpha-1-antitrypsin                                                                            |

|                            |                |
|----------------------------|----------------|
| UniProt Gene Name          | SERPINA1       |
| UniProt Synonym Gene Names | AAT; PI; SPAAT |
| UniProt Entry Name         | A1AT_HUMAN     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/alpha-1-trypsin-antibody-western-blot-elisa/74945>