

**Anti-Alpha-1-Antitrypsin (SERPINA1) Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13432**

**Specification**

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**Anti-Alpha-1-Antitrypsin (SERPINA1) Antibody - Product Information**

Application	,1,14,3,4,
Primary Accession	<a href="#">P01009</a>
Other Accession	<a href="#">525557</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1
Calculated MW	46737

**Anti-Alpha-1-Antitrypsin (SERPINA1) Antibody - Additional Information**

**Gene ID** 5265

**Other Names**

A1AT; AAT; Alpha 1 antiproteinase Alpha 1-antitrypsin; Alpha-1 protease inhibitor; Alpha-1-antiproteinase; alpha1 proteinase inhibitor; Alpha1AT; Dom1; Serine (or cysteine) proteinase inhibitor clade A member 1; Serine protease inhibitor 1-1; Serine protease inhibitor A1a; Serpin A1a; Serpin peptidase inhibitor clade A member 1; Serpina1; Short peptide from AAT; SPAAT; Spi1-1

**Format**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Anti-Alpha-1-Antitrypsin (SERPINA1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-Alpha-1-Antitrypsin (SERPINA1) 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**

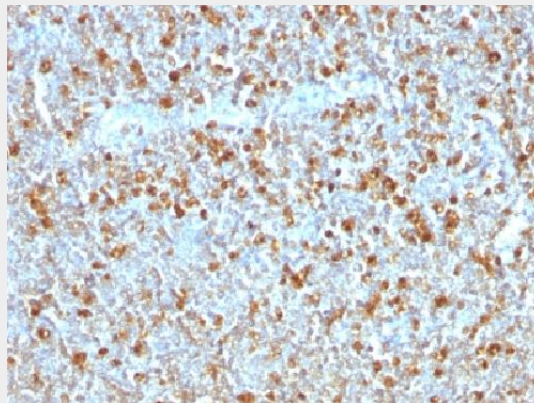
Ubiquitous. Expressed in leukocytes and plasma.

#### **Anti-Alpha-1-Antitrypsin (SERPINA1) 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-Antitrypsin (SERPINA1) Antibody - Images**



Formalin-fixed, paraffin-embedded human Tonsil stained with Alpha-1-Antitrypsin Monoclonal Antibody (AAT/1379)

#### **Anti-Alpha-1-Antitrypsin (SERPINA1) Antibody - Background**

The immunohistochemical staining of AAT is useful in identification of benign and malignant hepatic tumors and yolk sac carcinomas. Positive staining for AAT is also used in detection of benign and malignant lesions of histiocytic nature. This antibody is may also useful tool in the screening of patients with cryptogenic cirrhosis or other forms of liver disease with fibrosis of uncertain origin.