10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Alpha-1-Antitrypsin (SERPINA1) Antibody
Mouse Monoclonal Antibody
Catalog # AH13430

Specification

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

Application	**,1,14,3,4,**
Primary Accession	P01009
Other Accession	525557
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

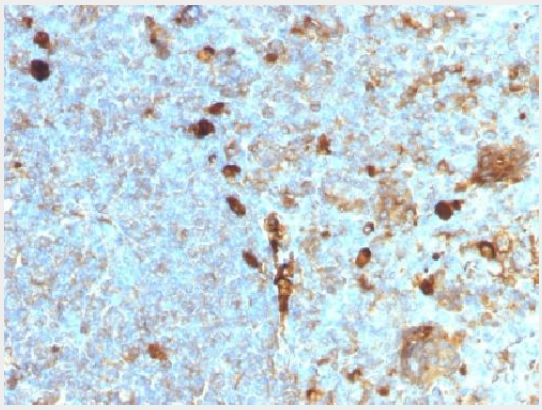
Tissue Location
Ubiquitous. Expressed in leukocytes and plasma.

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 Cytomety
- Cell Culture

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



Formalin-fixed, paraffin-embedded human Tonsil stained with Alpha-1-Antitrypsin Monoclonal Antibody (AAT/1378).

Western Blot of recombinant Alpha-1-Antitrypsin, Jurkat and A549 Cell Lysate using Alpha-1-Antitrypsin Monoclonal Antibody (AAT/1378).

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

It recognizes a protein of 54kDa, which is identified antitrypsin (AAT). 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.