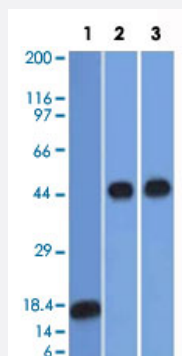


# SERPINA1 monoclonal antibody, clone AAT/1378

Catalog # MAB14866

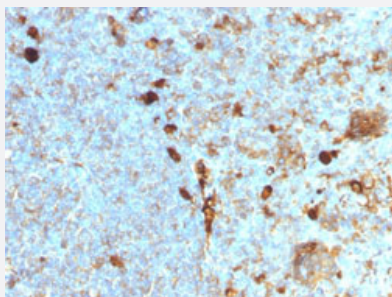
Size 100 ug

## Applications



### Western Blot

Western Blot analysis of Lane 1: SERPINA1 recombinant protein, Lane 2: Jurkat cell and Lane 3: A549 cell lysates with SERPINA1 monoclonal antibody, clone AAT/1378 (Cat # MAB14866).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with SERPINA1 monoclonal antibody, clone AAT/1378 (Cat # MAB14866).

## Specification

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against partial recombinant human SERPINA1. |
| Immunogen            | Recombinant protein corresponding to human SERPINA1.                         |
| Host                 | Mouse                                                                        |
| Theoretical MW (kDa) | 54                                                                           |
| Reactivity           | Human                                                                        |
| Form                 | Liquid                                                                       |

|                     |                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification        | Protein A/G purification                                                                                                                                                                                                                                                          |
| Isotype             | IgG1                                                                                                                                                                                                                                                                              |
| Recommend Usage     | Flow Cytometry (0.5-1 ug/10 <sup>6</sup> cells)<br>Immunofluorescence (0.5-1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL)<br>Western Blotting (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In 10 mM PBS.                                                                                                                                                                                                                                                                     |
| Storage Instruction | Store at -20 to -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                         |

## Applications

- Western Blot

Western Blot analysis of Lane 1: SERPINA1 recombinant protein, Lane 2: Jurkat cell and Lane 3: A549 cell lysates with SERPINA1 monoclonal antibody, clone AAT/1378 (Cat # MAB14866).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with SERPINA1 monoclonal antibody, clone AAT/1378 (Cat # MAB14866).

- Immunofluorescence

- Flow Cytometry

## Gene Info — SERPINA1

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5265</a>                                                                |
| Protein Accession# | <a href="#">P01009</a>                                                              |
| Gene Name          | SERPINA1                                                                            |
| Gene Alias         | A1A, A1AT, AAT, MGC23330, MGC9222, PI, PI1, PRO2275                                 |
| Gene Description   | serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 |
| Omim ID            | <a href="#">107400 606963</a>                                                       |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                           |

**Gene Summary**

The protein encoded by this gene is secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Defects in this gene can cause emphysema or liver disease. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

**Other Designations**

protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin|serine (or cysteine) proteinase inhibitor, clade A, member 1|serine proteinase inhibitor, clade A, member 1

## Publication Reference

- [Alpha-1-antitrypsin in duodenal fluid and gallbladder bile.](#)

Kyaw-Myint TO, Howell AM, Murphy GM, Anderson CM.

Clinica Chimica Acta; International Journal of Clinical Chemistry 1975 Feb; 59(1):51.

Application: ELISA, Human, Human duodenal fluid

- [The role of proteolytic enzymes in the pathogenesis of emphysema.](#)

Atkinson GW.

Annals of Clinical Laboratory Science 1973 Sep; 3(5):345.

## Pathway

- [Complement and coagulation cascades](#)

## Disease

- [Abortion](#)
- [Acute Disease](#)
- [Acute-Phase Reaction](#)
- [Adenocarcinoma](#)
- [Airway Obstruction](#)
- [alpha 1-Antitrypsin Deficiency](#)
- [Alpha-1-antitrypsin deficiency](#)
- [Aortic Stenosis](#)

- [Arterial Occlusive Diseases](#)
- [Asbestosis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Bacterial Infections](#)
- [Brain Ischemia](#)
- [Bronchiectasis](#)
- [Bronchitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery](#)
- [Cerebrovascular Accident](#)
- [Chronic Disease](#)
- [Cluster Headache](#)
- [Colonic Neoplasms](#)
- [Common Variable Immunodeficiency](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Stenosis](#)
- [Cough](#)
- [Cystic fibrosis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Dyspnea](#)
- [Edema](#)

- [Emphysema](#)
- [Fatty Liver](#)
- [Fetal Death](#)
- [Fibromuscular Dysplasia](#)
- [Gaucher disease](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Hepatitis C](#)
- [Hereditary hemochromatosis](#)
- [HIV Infections](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Immunologic Deficiency Syndromes](#)
- [Inflammation](#)
- [Iron Overload](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Mycobacterium Infections](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Nasal Polyps](#)

- [Occupational Diseases](#)
- [Pancreatitis](#)
- [Penile Induration](#)
- [Periodontitis](#)
- [Peripheral Vascular Diseases](#)
- [Pneumonia](#)
- [Pregnancy Complications](#)
- [Pseudomonas Infections](#)
- [Pulmonary Disease](#)
- [Pulmonary Emphysema](#)
- [Recurrence](#)
- [Respiratory Tract Infections](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Scoliosis](#)
- [Sinusitis](#)
- [Smoke Inhalation Injury](#)
- [Thromboembolism](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Venous Thrombosis](#)
- [Vertebral Artery Dissection](#)
- [Williams Syndrome](#)