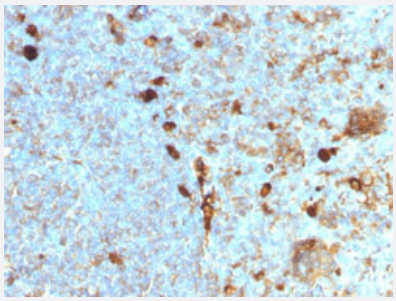
SERPINA1 monoclonal antibody, clone AAT/1378

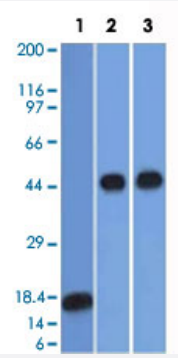
Catalog # MAB14865 Size 100 ug

Applications



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 # MAB14865).



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 # MAB14865).

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

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Purification	Protein A/G purification
Isotype	IgG1
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- 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 # MAB14865).

- Immunofluorescence

- Flow Cytometry

- 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 # MAB14865).

Gene Info — SERPINA1

Entrez GeneID	5265
Protein Accession#	P01009
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	107400 606963

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Gene Ontology	Hyperlink
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

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- 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

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- 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

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- 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

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