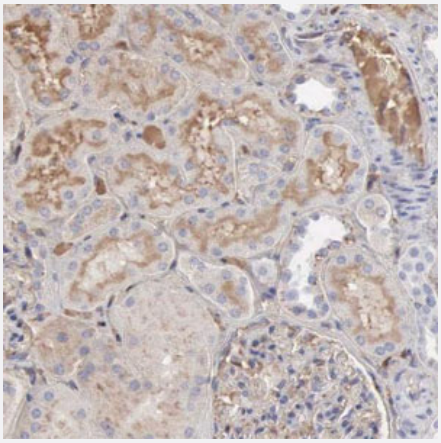
SERPINA1 polyclonal antibody

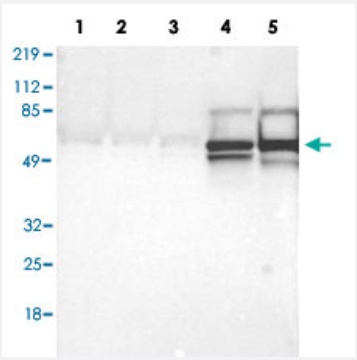
Catalog # PAB30249 Size 100 uL

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with SERPINA1 polyclonal antibody (Cat # PAB30249) shows moderate extra-cellular positivity in tubule cells and positivity of plasma in blood vesse at 1:200 - 1:500 dilution.



Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis with SERPINA1 polyclonal antibody (Cat # PAB30249) at 1:250 - 1:500 dilution
Lane 1: Human cell line RT-4
Lane 2: Human cell line U-251MG sp
Lane 3: Human cell line A-431
Lane 4: Human liver tissue
Lane 5: Human tonsil tissue

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human SERPINA1.
Immunogen	Recombinant protein corresponding to amino acids of human SERPINA1.
Sequence	HDQDHPTFNKITPNLAEFAFSLYRQLAHQSNSTNIFFSPVSIATAFAMLSLGTKADTHDEILEGLNFN LTEIPEAQIHEGFQELLRTLNQPDSQLQLTTGNGLFLSEGLKLVDKFLEDVKKLYHSEAFTVNFGDT EEAKKQINDYGAPHR
Host	Rabbit

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Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:2500-1:5000) Western Blot (1:250-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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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

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Omim ID	107400 606963
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

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

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- 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

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- 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

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- 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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