

SERPINA1 (Human) ELISA Kit

Catalog # KA0459

Size 1 Kit

Specification

Product Description	SERPINA1 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human SERPINA1.
Suitable Sample	Cell Culture Supernatant, Cell Lysate, CSF, Milk, Plasma, Saliva, Serum, Urine
Sample Volume	50 μ L
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.391 to 25 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

- Quantification

Gene Info — SERPINA1

Entrez GeneID	5265
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
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

- [iTRAQ-based proteomic analysis reveals potential regulatory networks in dust mite-related asthma treated with subcutaneous allergen immunotherapy.](#)

Jun Bai, Jia-Yong Zhong, Wang Liao, Ruo Hu, Liang Chen, Xian-Jin Wu, Shuang-Ping Liu.

Molecular Medicine Reports 2020 Nov; 22(5):3607.

Application: Quant, Human, Human serum

- [Results of a survey of patients with alpha-1 antitrypsin deficiency.](#)

Strange C, Stoller JK, Sandhaus RA, Dickson R, Turino G.

Respiration 2006 Aug; 73(2):185.

- [Emphysema in alpha1-antitrypsin deficiency: does replacement therapy affect outcome?](#)

Abboud RT, Ford GT, Chapman KR.

Treatments in Respiratory Medicine 2005 Feb; 4(1):1.

- [Haplotypes of the alpha-1 antitrypsin gene in healthy controls and Z deficiency patients.](#)

Chappell S, Guetta-Baranes T, Batowski K, Yiannakis E, Morgan K, O'Connor C, MacNee W, Kalsheker N.

Human Mutation 2004 Dec; 24(6):535.

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](#)