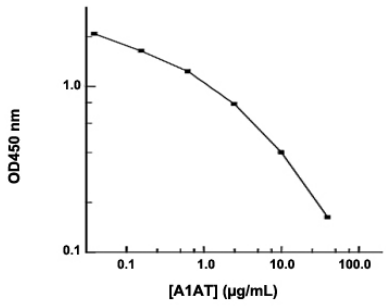
SERPINA1 (Human) ELISA Kit

Catalog # KA0458 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	SERPINA1 (Human) ELISA Kit is a competitive enzyme immunoassay for the quantitative measurem ent of human SERPINA1 in plasma and serum.
Suitable Sample	Plasma, Serum
Sample Volume	25 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.039 to 40 ug/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

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- 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

- Case study on human α1-antitrypsin: Recombinant protein titers obtained by commercial ELISA kits are inaccurate.

  Hansen HG, Kildegaard HF, Lee GM, Kol S.

  Biotechnology Journal 2016 Nov; 11(12):1648.

  Application: Quan, Human, CHO-S suspension cells

- Quantitative proteomic analysis exploring progression of colorectal cancer: Modulation of the serpin family.

  Peltier J, Roperch JP, Audebert S, Borg JP, Camoin L.

  Journal of Proteomics 2016 Oct; 148:139.

  Application: ELISA, Human, Serum

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- 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

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- 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

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- 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

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- 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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