

Product Datasheet

Human Serpin A1/alpha 1-Antitrypsin ELISA Kit (Colorimetric) KA0458

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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KA0458**Human Serpin A1/alpha 1-Antitrypsin ELISA Kit (Colorimetric)**

Product Information	
Unit Size	1 Kit
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage of components varies. See protocol for specific instructions.
Product Description	
Gene ID	5265
Gene Symbol	SERPINA1
Species	Human
Reactivity Notes	Human
Kit Components	Human alpha-1 Antitrypsin Microplate: A 96-well polystyrene microplate (12 strips of 8 wells) coated with a polyclonal antibody against human A1AT., Sealing Tapes: Pressure-sensitive sealing tapes that can be cut to fit the format of the individual assay., Human alpha-1 Antitrypsin Standard: Human A1AT in a buffered protein base, lyophilized., Biotinylated Human alpha-1 Antitrypsin: lyophilized., MIX Diluent Concentrate (10x): A 10-fold concentrated buffered protein base., Wash Buffer Concentrate (20x): A 20-fold concentrated buffered surfactant., Streptavidin-Peroxidase Conjugate (SP Conjugate): A 100-fold concentrate., Chromogen Substrate: A ready-to-use stabilized peroxidase chromogen substrate tetramethylbenzidine., Stop Solution: A 0.5 N hydrochloric acid to stop the chromogen substrate reaction.
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Standard Curve Range	0.039 to 40 ug/mL
Sensitivity	0.018 ug/mL
Inter Assay	CV% < 7.10%
Intra Assay	CV% < 4.20%
Assay Type	Competitive ELISA
Spiking Recovery	98.50%
Suitable Sample Type	Plasma, Serum
Sample Volume	25 uL
Product Application Details	
Applications	ELISA
Recommended Dilutions	ELISA
Application Notes	SERPINA1 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human SERPINA1 in plasma and serum.

Publications

Peltier J, Roperch JP, Audebert S et al. Quantitative proteomic analysis exploring progression of colorectal cancer: Modulation of the serpin family. J Proteomics 2016-08-02 [PMID: 27492143]

Hansen HG, Kildegaard HF, Lee GM et al. Case study on human α 1-antitrypsin: Recombinant protein titers obtained by commercial ELISA kits are inaccurate. Biotechnol J 2016-10-12 [PMID: 27731958]

Strange C, Stoller JK, Sandhaus RA et al. Results of a survey of patients with alpha-1 antitrypsin deficiency. Respiration 2005-08-03 [PMID: 16141711]

Chappell S, Guetta-Baranes T, Batowski K et al. Haplotypes of the alpha-1 antitrypsin gene in healthy controls and Z deficiency patients. Hum Mutat 2004-12-01 [PMID: 15532029]

Abboud RT, Ford GT, Chapman KR. et al. Emphysema in alpha1-antitrypsin deficiency: does replacement therapy affect outcome? Treat Respir Med 2005-01-01 [PMID: 15725045]





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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