

Human Alpha-1-Antitrypsin (SERPINA1) ELISA Kit | SERPINA1 elisa kit

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CATALOG #
AAA330915

REACTIVITY
Human

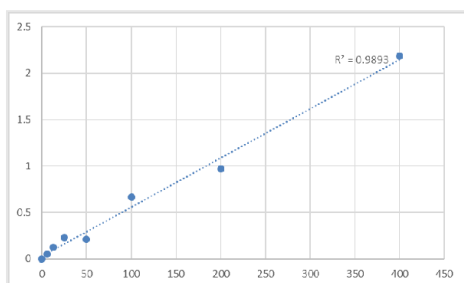
PRODUCT SYNONYMS

Alpha-1-Antitrypsin (SERPINA1); Human Alpha-1-Antitrypsin (SERPINA1) ELISA Kit; SERPINA1; A1A; A1-AT; AAT; MGC23330; MGC9222; PI; PI1; PRO2275; OTTHUMP00000197150; protease inhibitor 1 (anti-elastase); alpha-1-antitrypsin; serine (or cysteine) proteinase inhibitor; clade A; member 1; serine; Serpin Peptidase Inhibitor; Clade A(Alpha-1 Antiproteinase/AntiTrypsin)Member 1; SERPINA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Alpha-1-antitrypsin (SERPINA1) ELISA Kit has high sensitivity and excellent specificity for detection of Human SERPINA1. No significant cross-reactivity or interference between Human SERPINA1 and analogues was observed.
Sequence Length	418
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Alpha-1-antitrypsin (SERPINA1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SERPINA1 elisa kit	Description: This Human Alpha-1-antitrypsin (SERPINA1) ELISA Kit employs a two-site sandwich ELISA to quantitate SERPINA1 in samples. An antibody specific for SERPINA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SERPINA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINA1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SERPINA1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: alpha1-antitrypsin, an acute phase protein, is the prototypic member of the serpin super family and a major inhibitor of serine proteases. As an acute phase protein, alpha 1-antitrypsin is thought to play an important role in limiting host tissue injury at sites of inflammation. A1AT is a 52-kDa serpin (serine protease inhibitor), and, in medicine, it is considered the most prominent serpin; the terms alpha 1-antitrypsin and protease inhibitor (Pi) are often used interchangeably. Like all serine protease inhibitors, A1AT has a characteristic secondary structure of beta sheets and alpha helices. Mutations in these areas can lead to non-functional proteins that can polymerise and accumulate in the liver (infantile hepatic cirrhosis).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	189163530
NCBI GeneID	5265
NCBI GenBank Nucleotide #	NP_001121173.1
UniProt Accession #	P01009
NCBI Official Full Name	alpha-1-antitrypsin
NCBI Official Synonym Full Names	serpin family A member 1
NCBI Official Symbol	SERPINA1
NCBI Official Synonym Symbols	PI; A1A; AAT; PI1; A1AT; nNIF; PRO2275; alpha1AT
NCBI Protein Information	alpha-1-antitrypsin
UniProt Protein Name	Alpha-1-antitrypsin
UniProt Gene Name	SERPINA1
UniProt Synonym Gene Names	AAT; PI; SPAAT
UniProt Entry Name	A1AT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.