

Human Alpha 1-Antitrypsin ELISA Kit | alpha1-AT elisa kit

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CATALOG #
AAA98828

REACTIVITY
Human

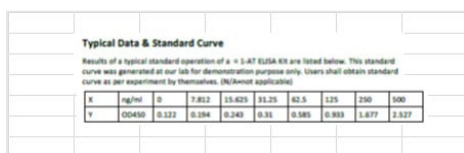
PRODUCT SYNONYMS

Alpha 1-Antitrypsin; Human Alpha 1-Antitrypsin ELISA Kit; alpha1-AT/A1AT/alpha 1-Antitrypsin/Serpin A1/alpha 1-Proteinase Inhibitor/A1A/AATMGC23330/Alpha-1 protease inhibitor/Alpha-1-antiproteinase/alpha-1-antitrypsin/antitrypsin); member 1/member 1/PIMGC9222/serine (or cysteine) proteinase inhibitor; clade A (alpha-1 antiproteinase/serine (or cysteine) proteinase inhibitor; clade A; member 1/serpin peptidase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin) ; alpha1-AT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of alpha1-AT. No significant cross-reactivity or interference between alpha1-AT and analogues was observed.
Sequence Length	418
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	7.813-500ng/ml
Sensitivity	4.688ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level alpha1- AT were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level alpha1- AT were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for alpha1-AT elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-alpha1-AT antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- alpha1-AT antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the alpha1-AT amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of alpha1-AT can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189163542
NCBI GeneID	5265
NCBI Accession #	NP_001121179.1
NCBI GenBank Nucleotide #	NM_001127707.1
Molecular Weight	34,755 Da
NCBI Official Full Name	alpha-1-antitrypsin
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
NCBI Official Symbol	SERPINA1
NCBI Official Synonym Symbols	PI; A1A; AAT; PI1; A1AT; 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.

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Online datasheet: <https://stage.aaabiotech.com/alpha1-at-human-elisa-kits/alpha-1-antitrypsin/98828>