

Mouse Alpha-1-Antitrypsin (a1AT) ELISA Kit | a1AT elisa kit

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CATALOG #
AAA66950

REACTIVITY
Mouse

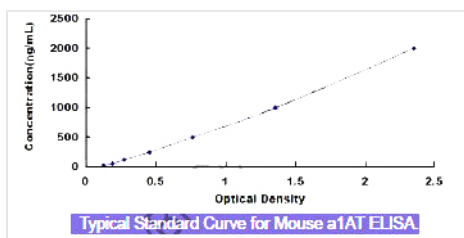
PRODUCT SYNONYMS

Alpha-1-Antitrypsin (a1AT); Mouse Alpha-1-Antitrypsin (a1AT) ELISA Kit; SERPINA1; SPAAT; A1-AT; PI; Serpin Peptidase Inhibitor; Clade A(Alpha-1 Antiproteinase/AntiTrypsin)Member 1; Alpha-1 protease inhibitor; Short peptide from AAT; Serpin A1; a1AT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of a1AT. No significant cross-reactivity or interference between a1AT and analogues was observed.
Sequence Length	413
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Assay Type	Sandwich
Detection Range	31.25-2000ng/mL
Sensitivity	11.5ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level a1AT were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level a1AT were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for a1AT elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of a1AT in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to a1AT. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to a1AT. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain a1AT, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of a1AT in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	76881807
NCBI GeneID	20701
NCBI Accession #	NP_033270.3
NCBI GenBank Nucleotide #	NM_009244.4
UniProt Accession #	P22599; Q61283; Q80ZH5; Q8VC20
Molecular Weight	45,975 Da
NCBI Official Full Name	alpha-1-antitrypsin 1-2
NCBI Official Synonym Full Names	serine (or cysteine) preptidase inhibitor, clade A, member 1B
NCBI Official Symbol	Serpina1b
NCBI Official Synonym Symbols	PI2; Dom2; Spi1-2; D12Ucla2
NCBI Protein Information	alpha-1-antitrypsin 1-2
UniProt Protein Name	Alpha-1-antitrypsin 1-2
UniProt Gene Name	Serpina1b
UniProt Synonym Gene Names	Aat2; Dom2; Spi1-2; AAT; Serpin A1b

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.