

Human Alanine Aminotransferase (ALT) ELISA Kit | ALT elisa kit

Human Alanine Aminotransferase (ALT) Mini Samples ELISA Kit

CATALOG #
AAA190271

REACTIVITY
Human

PRODUCT SYNONYMS

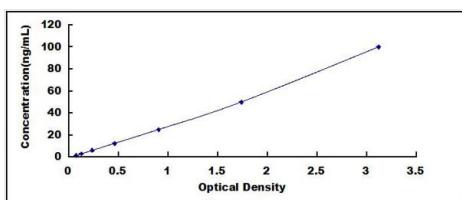
Alanine Aminotransferase (ALT); Human Alanine Aminotransferase (ALT) Mini Samples ELISA Kit; ALT Mini-sample ELISA kit (Human); Alanine Aminotransferase; GPT; ALAT; SGPT; AAT1; GPT1; Serum Glutamic Pyruvic Transaminase; Alanine Transaminase; Glutamate pyruvate transaminase 1; Glutamic-alanine transaminase 1; ALT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Alanine Aminotransferase (ALT). No significant cross-reactivity or interference between Mini Samples Alanine Aminotransferase (ALT) and analogues was observed. Reactive with Human ALT/Alanine Aminotransferase
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	0.59ng/mL
Sample Size	15-25uL
Detection Method	Colormetric
Featured Series	ME kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Alanine Aminotransferase (ALT) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Alanine Aminotransferase (ALT) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (micro-volume samples 15-25 ul)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25ul standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples Alanine Aminotransferase (ALT). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Alanine Aminotransferase (ALT). 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 Mini Samples Alanine Aminotransferase (ALT), 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 Mini Samples Alanine Aminotransferase (ALT) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Enzyme & Kinase, Infection immunity, Hepatology
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	1507680
NCBI GeneID	2875
UniProt Accession #	P24298; P78398; Q93076; B0YJ18; D3DWM7
Molecular Weight	54,637 Da
NCBI Official Full Name	alanine aminotransferase
NCBI Official Synonym Full Names	glutamic-pyruvate transaminase (alanine aminotransferase)
NCBI Official Symbol	GPT
NCBI Official Synonym Symbols	AAT1; ALT1; GPT1
NCBI Protein Information	alanine aminotransferase 1; GPT 1; glutamic-alanine transaminase 1; glutamic--alanine transaminase 1; glutamic--pyruvic transaminase 1; glutamate pyruvate transaminase 1
UniProt Protein Name	Alanine aminotransferase 1
UniProt Gene Name	GPT
UniProt Synonym Gene Names	AAT1; GPT1; ALT1; GPT 1
UniProt Entry Name	ALAT1_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.