

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

Mouse Alanine Aminotransferase (ALT) Instant ELISA Kit

CATALOG #
AAA161622

REACTIVITY
Mouse

PRODUCT SYNONYMS

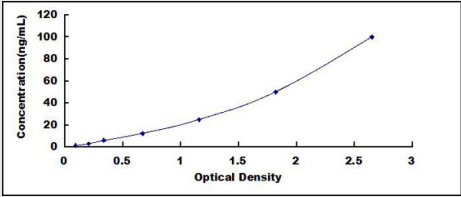
Alanine Aminotransferase (ALT); Mouse Alanine Aminotransferase (ALT) Instant ELISA Kit; ALT Instant ELISA kit (Mouse); GPT; ALAT; SGPT; AAT1; GPT1; Serum Glutamic Pyruvic Transaminase; Alanine Transaminase; Glutamate pyruvate transaminase 1; Glutamic--alanine transaminase 1; ALT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Instant Alanine Aminotransferase (ALT). No significant cross-reactivity or interference between Instant Alanine Aminotransferase (ALT) and analogues was observed. Reactive with Mouse ALT/Alanine Aminotransferase
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	IE kit
Detection Range	1.56-100ng/mL
Sensitivity	0.62ng/mL
Sample Size	100uL
Assay Time	1h, 10min
Function	Detects protein (quick procedure in 1 hrs)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Instant 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 Instant 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%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 50ul standard or sample and 50ul Detection Reagent A to each well. Incubate 1 hours at 37 degree C 3. Aspirate and wash 3 times 4. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 5. Add 50ul 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 Instant Alanine Aminotransferase (ALT). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Instant 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 Instant 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 Instant 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)
Typical Standard Curve for ALT ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	46576612
NCBI GeneID	76282
UniProt Accession #	Q8QZR5
Molecular Weight	55,143 Da
NCBI Official Full Name	Alanine aminotransferase 1
NCBI Official Synonym Full Names	glutamic pyruvic transaminase, soluble
NCBI Official Symbol	Gpt
NCBI Official Synonym Symbols	ALT; ALT1; Gpt1; Gpt-1; 1300007J06Rik; 2310022B03Rik
NCBI Protein Information	alanine aminotransferase 1
UniProt Protein Name	Alanine aminotransferase 1
UniProt Gene Name	Gpt
UniProt Synonym Gene Names	Gpt1; ALT1; GPT 1

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.