

Mouse Aspartate Aminotransferase (AST) ELISA Kit | AST elisa kit

Mouse Aspartate Aminotransferase (AST) Instant ELISA Kit

CATALOG #
AAA161625

REACTIVITY
Mouse

PRODUCT SYNONYMS

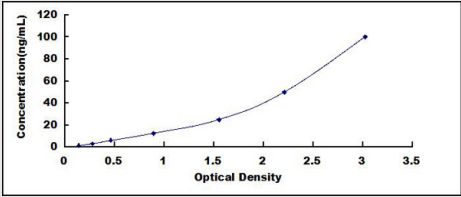
Aspartate Aminotransferase (AST); Mouse Aspartate Aminotransferase (AST) Instant ELISA Kit; AST Instant ELISA kit (Mouse); cCAT; AAT; ASAT; SGOT; GOT1; Cysteine transaminase; cytoplasmic; Transaminase A; Aspartate Transaminase 1; Cytoplasmic; Glutamic-Oxaloacetic Transaminase 1; Soluble; AST elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Instant Aspartate Aminotransferase (AST). No significant cross-reactivity or interference between Instant Aspartate Aminotransferase (AST) and analogues was observed. Reactive with Mouse AST/Aspartate 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	0.55ng/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 Aspartate Aminotransferase (AST) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Instant Aspartate Aminotransferase (AST) 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 Aspartate Aminotransferase (AST). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Instant Aspartate Aminotransferase (AST). 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 Aspartate Aminotransferase (AST), 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 Aspartate Aminotransferase (AST) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Research Area	Enzyme & Kinase, Tumor immunity, 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 AST ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	160298209
NCBI GeneID	14718
NCBI Accession #	NP_034454.2
NCBI GenBank Nucleotide #	NM_010324.2
UniProt Accession #	P05201; Q3UJH8
Molecular Weight	46,248 Da
NCBI Official Full Name	aspartate aminotransferase, cytoplasmic
NCBI Official Synonym Full Names	glutamic-oxaloacetic transaminase 1, soluble
NCBI Official Symbol	Got1
NCBI Official Synonym Symbols	cCAT; Got-1; cAspAT; AI789014
NCBI Protein Information	aspartate aminotransferase, cytoplasmic
UniProt Protein Name	Aspartate aminotransferase, cytoplasmic
UniProt Gene Name	Got1
UniProt Synonym Gene Names	cAspAT; cCAT
UniProt Entry Name	AATC_MOUSE

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/mouse-elisa-kits/aspartate-aminotransferase-ast/161625>