

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

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CATALOG #
AAA138620

REACTIVITY
Human

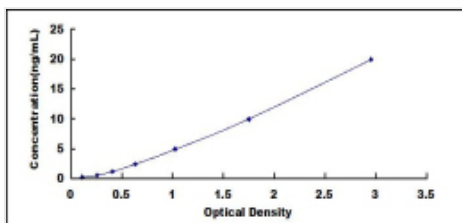
PRODUCT SYNONYMS

Aspartate Aminotransferase (AST); Human Aspartate Aminotransferase (AST) ELISA Kit; 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	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Aspartate Aminotransferase (AST). No significant cross-reactivity or interference between Aspartate Aminotransferase (AST) and analogues was observed.
Sequence Length	453
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	15.6-1,000ng/mL
Sensitivity	5.5ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level 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 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%
Preparation and Storage	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)

ADDITIONAL INFORMATION

Related Product Information for AST elisa kit	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 Aspartate Aminotransferase (AST). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to 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 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 Aspartate Aminotransferase (AST) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for AST elisa kit	Enzyme & Kinase; Tumor immunity; Infection immunity; Hepatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	334187077
NCBI GeneID	829330
NCBI Accession #	NP_001190885.1
NCBI GenBank Nucleotide #	NM_001203956.1
UniProt Accession #	P46248; O49392; Q8LGE6
Molecular Weight	49,831 Da
NCBI Official Full Name	aspartate aminotransferase
NCBI Official Symbol	ASP5
NCBI Official Synonym Symbols	AAT3; ASP5; ASPARTATE AMINOTRANSFERASE; aspartate aminotransferase 5; ASPARTATE AMINOTRANSFERASE DEFICIENT 3; ATAAT1; F11C18.15
NCBI Protein Information	aspartate aminotransferase
UniProt Protein Name	Aspartate aminotransferase, chloroplastic
UniProt Gene Name	ASP5
UniProt Entry Name	AAT5_ARATH

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/human-elisa-kits/aspartate-aminotransferase-ast/138620>