

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

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CATALOG #
AAA184452

REACTIVITY
Rat

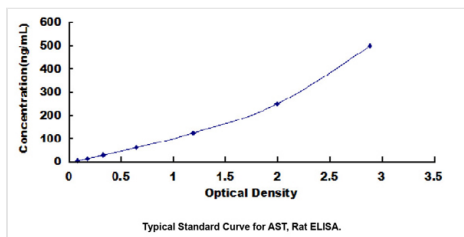
PRODUCT SYNONYMS

Aspartate Aminotransferase (AST); Rat 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	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of AST. No significant cross-reactivity or interference between AST and analogues was observed.
Sequence Length	453
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	7.8-500ng/mL
Sensitivity	< 3.4ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level AST 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 AST were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to AST. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 AST in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of AST in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
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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 5
NCBI Official Symbol	ASP5
NCBI Official Synonym Symbols	AAT3; ASPARTATE AMINOTRANSFERASE; aspartate aminotransferase 5; ASPARTATE AMINOTRANSFERASE DEFICIENT 3; ATAAT1; F11C18.15
NCBI Protein Information	aspartate aminotransferase 5
UniProt Protein Name	Aspartate aminotransferase, chloroplatic
UniProt Gene Name	ASP5

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/rat-elisa-kits/aspartate-aminotransferase-ast/184452>