

## Mouse Aspartate Aminotransferase ELISA Kit | AST elisa kit

Mouse Aspartate Aminotransferase ELISA Kit

 CATALOG #  
AAA98034

 REACTIVITY  
Mouse

### PRODUCT SYNONYMS

Aspartate Aminotransferase; Mouse Aspartate Aminotransferase ELISA Kit; AST; AST elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                    |
| 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         | 448                                                                                                                                                                                                      |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                                                          |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                     |
| Detection Range         | 0.156-10ng/ml                                                                                                                                                                                            |
| Sensitivity             | 0.094ng/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<8%                                     |
| 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<10% |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C                                             |

### IMAGES

#### Typical Data & Standard Curve

Results of a typical standard operation of a AST ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

|   |       |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| X | ng/ml | 0     | 0.156 | 0.312 | 0.625 | 1.25  | 2.5   | 5     | 10    |
| Y | OD450 | 0.130 | 0.187 | 0.238 | 0.367 | 0.595 | 0.918 | 1.455 | 2.365 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for AST elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- AST antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- AST antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the AST amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of AST can be calculated.

NCBI AND UNIPROT INFORMATION

|                               |                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                     | 334187077                                                                                                                       |
| NCBI GeneID                   | 829330                                                                                                                          |
| NCBI Accession #              | NP_001190885.1                                                                                                                  |
| NCBI GenBank Nucleotide #     | NM_001203956.1                                                                                                                  |
| 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/ast-mouse-elisa-kits/aspartate-aminotransferase/98034>