

## Rat Alanine Aminotransferase (ALT) RTU ELISA Kit | ALT rtu elisa kit

Rat Alanine Aminotransferase (ALT) ELISA Kit

CATALOG #  
**AAA69038**

REACTIVITY  
**Rat**

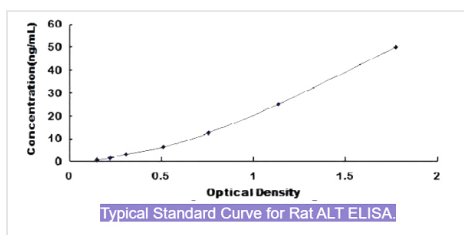
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                 |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of ALT. No significant cross-reactivity or interference between ALT and analogues was observed.                                                                                                                                                                             |
| Sequence Length         | 496                                                                                                                                                                                                                                                                                                                                                 |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                               |
| Samples                 | Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids                                                                                                                                                                                                                                             |
| Detection Range         | 0.781-50ng/mL                                                                                                                                                                                                                                                                                                                                       |
| Sensitivity             | < 0.28ng/mL                                                                                                                                                                                                                                                                                                                                         |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ALT 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 ALT were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                             |
| Preparation and Storage | For unopened kits: All the reagents should be kept at 4 degree C upon receipt.<br>For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ALT rtu elisa kit | <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ALT. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 ALT in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ALT in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates or other biological fluids.</p> |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 13591961                       |
| NCBI GeneID                      | 81670                          |
| NCBI Accession #                 | NP_112301.1                    |
| NCBI GenBank Nucleotide #        | NM_031039.1                    |
| UniProt Accession #              | P25409; Q4V7F7                 |
| Molecular Weight                 | 55,110 Da                      |
| NCBI Official Full Name          | alanine aminotransferase 1     |
| NCBI Official Synonym Full Names | glutamic--pyruvic transaminase |
| NCBI Official Symbol             | Gpt                            |
| NCBI Official Synonym Symbols    | ALAT; Gpt1                     |
| NCBI Protein Information         | alanine aminotransferase 1     |
| UniProt Protein Name             | Alanine aminotransferase 1     |
| UniProt Gene Name                | Gpt                            |
| UniProt Synonym Gene Names       | Aat1; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/rat-rtu-elisa-kits/alanine-aminotransferase-alt/69038>