

## Rat Alanine Aminotransferase (ALT) CLIA Kit | ALT clia kit

Rat Alanine Aminotransferase (ALT) CLIA Kit

CATALOG #  
**AAA130245**

REACTIVITY  
**Rat**

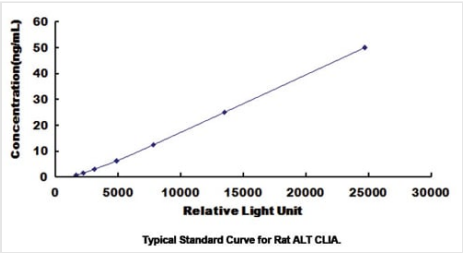
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Alanine Aminotransferase (ALT). No significant cross-reactivity or interference between Alanine Aminotransferase (ALT) and analogues was observed.                                                                                                                                                                                                                                                              |
| Sequence Length                                   | 493                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                                           | Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range                                   | 0.14-100ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity                                       | 0.05ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Application                                       | Chemiluminescent immunoassay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Alanine Aminotransferase (ALT) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                                                  |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Alanine Aminotransferase (ALT) 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.<br>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 ALT clia kit | The microplate provided in this kit has been pre-coated with an antibody specific to Alanine Aminotransferase (ALT). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Alanine Aminotransferase (ALT). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Alanine Aminotransferase (ALT) level in the sample or standard.; |
| Product Categories/Family for ALT clia kit   | Enzyme & Kinase; Infection immunity; Hepatology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI GI #                        | 1507680                                                   |
| NCBI GeneID                      | 2875                                                      |
| UniProt Accession #              | P24298; P78398; Q93076; B0YJ18; D3DWM7                    |
| Molecular Weight                 | 54,637 Da                                                 |
| NCBI Official Full Name          | alanine aminotransferase, partial                         |
| NCBI Official Synonym Full Names | glutamic-pyruvate transaminase (alanine aminotransferase) |
| NCBI Official Symbol             | GPT                                                       |
| NCBI Official Synonym Symbols    | AAT1; ALT1; 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                                   |
| UniProt Entry Name               | ALAT1_HUMAN                                               |

**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.