

## Human L-Type Amino Acid Transporter 1 (y+LAT1) ELISA Kit | y+LAT1 elisa kit

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CATALOG #  
**AAA68094**

REACTIVITY  
**Human**

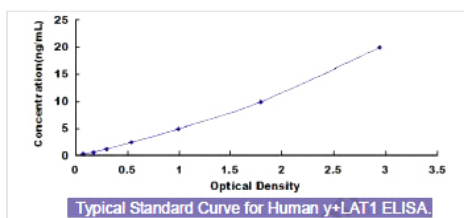
### PRODUCT SYNONYMS

L-Type Amino Acid Transporter 1 (y+LAT1); Human L-Type Amino Acid Transporter 1 (y+LAT1) ELISA Kit; y+LAT1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of y+LAT1. No significant cross-reactivity or interference between y+LAT1 and analogues was observed.                              |
| Sequence Length         | 511                                                                                                                                                                                                        |
| Samples                 | Tissue homogenates, cell lysates and other biological fluids.                                                                                                                                              |
| Assay Type              | Sandwich                                                                                                                                                                                                   |
| Detection Range         | 0.312-20ng/mL                                                                                                                                                                                              |
| Sensitivity             | 0.114ng/mL                                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level y+LAT1 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 y+LAT1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12% |
| Preparation and Storage | For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Related Product Information for y+LAT1 elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of y+LAT1 in human tissue homogenates, cell lysates and other biological fluids.</p> <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to y+LAT1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to y+LAT1. 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 y+LAT1, 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 y+LAT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 186910306                                              |
| NCBI GeneID                      | 9056                                                   |
| NCBI Accession #                 | NP_001119577.1                                         |
| NCBI GenBank Nucleotide #        | NM_001126105.2                                         |
| UniProt Accession #              | Q9UM01; O95984; Q53XC1; Q86U07; Q9P2V5; B2RAU0; D3DS26 |
| Molecular Weight                 | 55,991 Da                                              |
| NCBI Official Full Name          | Y+L amino acid transporter 1                           |
| NCBI Official Synonym Full Names | solute carrier family 7 member 7                       |
| NCBI Official Symbol             | SLC7A7                                                 |
| NCBI Official Synonym Symbols    | LPI; LAT3; MOP-2; Y+LAT1; y+LAT-1                      |
| NCBI Protein Information         | Y+L amino acid transporter 1                           |
| UniProt Protein Name             | Y+L amino acid transporter 1                           |
| UniProt Gene Name                | SLC7A7                                                 |
| UniProt Synonym Gene Names       | MOP-2; Y+LAT1; y+LAT-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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/l-type-amino-acid-transporter-1-ylat1/68094>