

Human Excitatory Amino Acid Transporter 1 (EAAT1) RTU ELISA Kit | EAAT1 rtu elisa kit

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CATALOG #
AAA70329

REACTIVITY
Human

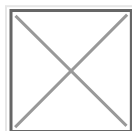
PRODUCT SYNONYMS

Excitatory Amino Acid Transporter 1 (EAAT1); Human Excitatory Amino Acid Transporter 1 (EAAT1) ELISA Kit; SLC1A3; EA6; GLAST1; Sodium-dependent glutamate/aspartate transporter 1; Solute Carrier 1 Member 3; Glial High Affinity Glutamate Transporter; GLutamate Aspartate Transporter; EAAT1 rtu elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of EAAT1. No significant cross-reactivity or interference between EAAT1 and analogues was observed.
Sequence Length	497
Samples	Human tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	< 0.123ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level EAAT1 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 EAAT1 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. 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 EAAT1 rtu elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of EAAT1 in human tissue homogenates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to EAAT1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to EAAT1. 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 EAAT1, 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 EAAT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	262359914
NCBI GeneID	6507
NCBI Accession #	NP_001160167.1
NCBI GenBank Nucleotide #	NM_001166695.2
UniProt Accession #	P43003; Q4JCQ8; B2R5T3
Molecular Weight	55,149 Da
NCBI Official Full Name	excitatory amino acid transporter 1 isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 member 3
NCBI Official Symbol	SLC1A3
NCBI Official Synonym Symbols	EA6; EAAT1; GLAST; GLAST1
NCBI Protein Information	excitatory amino acid transporter 1
UniProt Protein Name	Excitatory amino acid transporter 1
UniProt Gene Name	SLC1A3
UniProt Synonym Gene Names	; GLAST-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-rtu-elisa-kits/excitatory-amino-acid-transporter-1-eaat1/70329>