

Human Excitatory Amino Acid Transporter 2 (EAAT2) ELISA Kit | EAAT2 elisa kit

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CATALOG #
AAA20384

REACTIVITY
Human

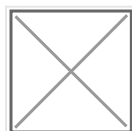
PRODUCT SYNONYMS

Excitatory Amino Acid Transporter 2 (EAAT2); Human Excitatory Amino Acid Transporter 2 (EAAT2) ELISA Kit; SLC1A2; EAAT2; GLT-1; Solute Carrier Family 1 Member 2; Glutamate/aspartate transporter II; Sodium-dependent glutamate/aspartate transporter 2; EAAT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of EAAT2. No significant cross-reactivity or interference between EAAT2 and analogues was observed.
Sequence Length	565
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level EAAT2 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 EAAT2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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. 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 EAAT2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to EAAT2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to EAAT2. 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 EAAT2, 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 EAAT2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of EAAT2 in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for EAAT2 elisa kit	Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	307746865
NCBI GeneID	6506
NCBI Accession #	NP_001182657.1
NCBI GenBank Nucleotide #	NM_001195728.2
UniProt Accession #	P43004; Q14417; Q541G6; B4DQE9; U3KQQ4
Molecular Weight	61,008 Da
NCBI Official Full Name	excitatory amino acid transporter 2 isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 (glial high affinity glutamate transporter), member 2
NCBI Official Symbol	SLC1A2
NCBI Official Synonym Symbols	HBGT; EAAT2; GLT-1
NCBI Protein Information	excitatory amino acid transporter 2
UniProt Protein Name	Excitatory amino acid transporter 2
UniProt Gene Name	SLC1A2
UniProt Synonym Gene Names	EAAT2; GLT1
UniProt Entry Name	EAA2_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.