Human Excitatory Amino Acid Transporter 2 (SLC1A2) ELISA Kit | EAAT2 elisa kit

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CATALOG #	REACTIVITY
AAA330829	**Human**

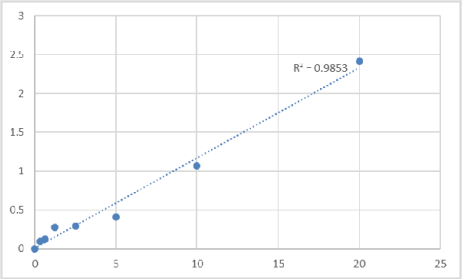
PRODUCT SYNONYMS

Excitatory Amino Acid Transporter 2 (SLC1A2); Human Excitatory Amino Acid Transporter 2 (SLC1A2) ELISA Kit; SLC1A2; GLT-1; excitatory amino acid transporter 2; excitotoxic amino acid transporter 2; glial high affinity glutamate transporter; glutamate/aspartate transporter; sodium-dependent glutamate/asparta; EAAT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Excitatory amino acid transporter 2 (SLC1A2) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC1A2. No significant cross-reactivity or interference between Human SLC1A2 and analogues was observed.
Sequence Length	565
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Human Excitatory amino acid transporter 2 (SLC1A2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for EAAT2 elisa kit	Description: This Human Excitatory amino acid transporter 2 (SLC1A2) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC1A2 in samples. An antibody specific for SLC1A2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC1A2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC1A2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC1A2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SLC1A2/ EAAT2 is a member of a family of the solute carrier family of proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extracellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Ceftriaxone, an antibiotic, has been shown to induce/enhance the expression of EAAT2, resulting in reduced glutamate activity. Ceftriaxone has been shown to reduce the development and expression of tolerance to opiates and other drugs of abuse. EAAT2 may possess an important role in modulating drug addiction and tolerance.

NCBI AND UNIPROT INFORMATION

NCBI GI #	307746865
NCBI GeneID	6506
NCBI Accession #	NP_001182657.1
NCBI GenBank Nucleotide #	NP_001182657.1
UniProt Accession #	P43004
NCBI Official Full Name	excitatory amino acid transporter 2 isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 member 2
NCBI Official Symbol	SLC1A2
NCBI Official Synonym Symbols	HBGT; EAAT2; GLT-1; EIEE41
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.

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Online datasheet: https://www.aaabiotech.com/eaat2-human-elisa-kits/excitatory-amino-acid-transporter-2-slc1a2/330829