

Human Excitatory Amino Acid Transporter 4 (SLC1A6) ELISA Kit | EAAT4 elisa kit

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CATALOG #
AAA330826

REACTIVITY
Human

PRODUCT SYNONYMS

Excitatory Amino Acid Transporter 4 (SLC1A6); Human Excitatory Amino Acid Transporter 4 (SLC1A6) ELISA Kit; SLC1A6; MGC33092; MGC43671; excitatory amino acid transporter 4; EAAT4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Excitatory amino acid transporter 4 (SLC1A6) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC1A6. No significant cross-reactivity or interference between Human SLC1A6 and analogues was observed.
Sequence Length	312
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 4 (SLC1A6) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for EAAT4 elisa kit	Description: This Human Excitatory amino acid transporter 4 (SLC1A6) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC1A6 in samples. An antibody specific for SLC1A6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC1A6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC1A6 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 SLC1A6 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: EAAT4 is expressed predominantly in the cerebellum, has high affinity for the excitatory amino acids L-aspartate and L-glutamate. When stimulated by these amino acids, EAAT4 conducts chloride ions.Excitatory amino acid transporters (EAATs) in the central nervous system maintain extracellular glutamate concentrations below excitotoxic levels and may limit the activation of glutamate receptors. The transport activity encoded by EAAT4 has high apparent affinity for L-aspartate and L-glutamate, and has a pharmacologic profile consistent with previously described cerebellar transport activities. In Xenopus oocytes expressing EAAT4, L-aspartate and L-glutamate elicited a current predominantly carried by chloride ions. This chloride conductance was not blocked by components that block endogenous oocyte chloride channels.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	442535523
NCBI GeneID	6511
NCBI Accession #	NP_001259017.1
NCBI GenBank Nucleotide #	NP_001259017.1
UniProt Accession #	P48664
NCBI Official Full Name	excitatory amino acid transporter 4 isoform 1
NCBI Official Synonym Full Names	solute carrier family 1 member 6
NCBI Official Symbol	SLC1A6
NCBI Official Synonym Symbols	EAAT4
NCBI Protein Information	excitatory amino acid transporter 4
UniProt Protein Name	Excitatory amino acid transporter 4
UniProt Gene Name	SLC1A6
UniProt Synonym Gene Names	EAAT4
UniProt Entry Name	EAA4_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.