

Human Excitatory amino acid transporter 1 (SLC1A3) ELISA Kit



Catalog No: #EK7297

Orders: order@signalwayantibody.com

Package Size: #EK7297-1 48T #EK7297-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Excitatory amino acid transporter 1 (SLC1A3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	EA6; EAAT1; FLJ25094; GLAST; GLAST1; excitatory amino acid transporter 1 sodium-dependent glutamate/aspartate transporter
Accession No.	P43003
Uniprot	P43003
GeneID	6507;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.123 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SLC1A3 in samples. An antibody specific for SLC1A3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC1A3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC1A3 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 SLC1A3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Glutamate and aspartate are excitatory neurotransmitters that have been implicated in a number of pathologic states of the nervous system. Accumulation of extracellular excitatory amino acids can be cytotoxic and may also lower the seizure threshold in epilepsy. EAAT1 (SLC1A3) is a member of a family of high-affinity sodium-dependent transporter molecules that regulate neurotransmitter concentrations at the excitatory glutamatergic synapses of the mammalian central nervous system. The cDNA encoded a deduced protein that was 95% homologous to a previously reported rabbit glutamate/aspartate transporter. The highest expression was found in the substantia nigra, red nucleus, and hippocampus, and in cerebral cortical layers

Note: This product is for in vitro research use only