Human Solute carrier family 15 member 2 (SLC15A2) ELISA Kit

Catalog No: #EK7307

Package Size: #EK7307-1 48T #EK7307-2 96T

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Description

Product Name	Human Solute carrier family 15 member 2 (SLC15A2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ33407; PEPT2; kidney H(+)/peptide cotransporter|oligopeptide transporter; kidney isoform|peptide transporter 2
Accession No.	Q16348
Uniprot	Q16348
GeneID	6565;
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:0.119 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 SLC15A2 in samples. An antibody specific for SLC15A2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC15A2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC15A2 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 SLC15A2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:This transporter, SLC15A2, belongs to the same gene family as SLC15A1, the proton-coupled peptide transporter found in the small intestine.The SLC15A2 cDNA encodes a predicted 729-amino acid protein that contains 12 transmembrane domains and a long hydrophilic segment between transmembrane domains 9 and 10.

The amino acid sequence of SLC15A2 shows 50% identity and 70% similarity with that of SLC15A1. Functional expression of the SLC15A2 cDNA in HeLa cells resulted in the induction of a proton-dependent transport system that was able to transport dipeptides, tripeptides, and beta-lactam antibiotics; free amino acids were not accepted as substrates. RT-PCR showed that SLC15A2 is expressed in kidney but not in intestine.

Note: This product is for in vitro research use only