

Human Solute carrier family 12 member 7 (SLC12A7) ELISA Kit



Catalog No: #EK7309

Orders: order@signalwayantibody.com

Package Size: #EK7309-1 48T #EK7309-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Solute carrier family 12 member 7 (SLC12A7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp434F076; KCC4; potassium/chloride transporter KCC4
Accession No.	Q9Y666
Uniprot	Q9Y666
GeneID	10723;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.061 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 SLC12A7 in samples. An antibody specific for SLC12A7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC12A7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC12A7 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 SLC12A7 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**By searching EST databases, Mount et al. (1999) identified a cDNA encoding SLC12A7, which they initially termed KCC3 but later renamed KCC4. The deduced 1,083-amino acid SLC12A7 protein contains 12 membrane-spanning segments, 8 phosphorylation sites, 7 of which are in the C terminus, and 4 potential N-glycosylation sites. SLC12A7 shares 65% amino acid identity with SLC12A4 and 66% identity with SLC12A6 . Northern blot analysis detected a 5.3-kb SLC12A7 transcript in most tissues tested, with highest expression in heart and kidney and little or no expression in adult brain. Functional analysis confirmed that SLC12A7 is a KCC.

Note: This product is for in vitro research use only