

Human Solute carrier family 22 member 4 (SLC22A4) ELISA Kit



Catalog No: #EK7290

Orders: order@signalwayantibody.com

Package Size: #EK7290-1 48T #EK7290-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Solute carrier family 22 member 4 (SLC22A4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC34546; MGC40524; OCTN1; integral membrane transport protein solute carrier family 22 member 4
Accession No.	Q9H015
Uniprot	Q9H015
GeneID	6583;
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:78.12-5000 pg/mL

Sensitivity:27 pg/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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate SLC22A4 in samples. An antibody specific for SLC22A4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC22A4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC22A4 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 SLC22A4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The encoded protein is an integral protein of the plasma membrane containing 12 transmembrane segments. The first functional designation of this protein was OCTN1 but efficiency of transport for organic cations is very low. The transport efficiency for carnitine is also negligible. Instead, the protein is responsible for the cotransport of sodium ions and ergothioneine, which is an antioxidant, into cells. Thus, a more appropriate functional designation is ETT ("ergothioneine transporter"). Widely expressed. Highly expressed in whole blood, bone marrow, trachea and fetal liver. Weakly expressed in kidney, skeletal muscle, prostate, lung, pancreas, placenta, heart, uterus, spleen and spinal cord. Highly expressed in intestinal cell types affected by Crohn disease, including epithelial cells.

Note: This product is for in vitro research use only