

Human Monocarboxylate transporter 3 (SLC16A8) ELISA Kit



Catalog No: #EK7304

Orders: order@signalwayantibody.com

Package Size: #EK7304-1 48T #EK7304-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Monocarboxylate transporter 3 (SLC16A8) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP5-1039K5.14; MCT3; REMP; monocarboxylate transporter 3 solute carrier 16 (monocarboxylic acid transporters); member 8 solute carrier family 16; member 8
Accession No.	O95907
Uniprot	O95907
GeneID	23539;
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 SLC16A8 in samples. An antibody specific for SLC16A8 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC16A8 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC16A8 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 SLC16A8 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:SLC16A8 is a member of a family of proton-coupled monocarboxylate transporters that mediate lactate transport across cell membranes .

The deduced 504-amino acid protein has a calculated molecular mass of 52.3 kD. MCT3 has 12 putative transmembrane domains and a long cytoplasmic loop between transmembrane domains 6 and 7. MCT3 shares 85% and 62% identity with rat and chicken Mct3, respectively, and highest similarity is in the transmembrane region. PCR analysis detected MCT3 in RPE RNA, but not in neural retina RNA, suggesting that in human, as in chicken and rat, the expression of MCT3 is restricted to RPE.

Note: This product is for in vitro research use only