

Human Synaptic vesicular amine transporter (SLC18A2) ELISA Kit



Catalog No: #EK7302

Orders: order@signalwayantibody.com

Package Size: #EK7302-1 48T #EK7302-2 96T

Support: tech@signalwayantibody.com

Description

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|--------------------|--|
| Product Name | Human Synaptic vesicular amine transporter (SLC18A2) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | MGC120477; MGC120478; MGC26538; SVAT; SVMT; VAT2; VMAT2; vesicle monoamine transporter type 2 |
| Accession No. | Q05940 |
| Uniprot | Q05940 |
| GeneID | 6571; |
| 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:0.055 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate SLC18A2 in samples. An antibody specific for SLC18A2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC18A2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC18A2 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 SLC18A2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:VMAT2 is an integral membrane protein that acts to transport monoamines particularly neurotransmitters such as dopamine, norepinephrine, serotonin, and histamine from cellular cytosol into synaptic vesicles. In humans, the VMAT2 protein is encoded by the VMAT2 gene. Geneticist Dean Hamer identified the VMAT2 gene as correlating with spirituality using data from a smoking survey, which included questions intended to measure "self-transcendence". Hamer performed the spirituality study on the side, independently of the National Cancer Institute smoking study. His findings were published in the mass-market book According to Carl Zimmer, Hamer's study has not been academically published and depends on minor statistical variance.

Note: This product is for in vitro research use only