

# Rat High affinity choline transporter 1 (SLC5A7) ELISA Kit

Catalog No: #EK7264

Orders: order@signalwayantibody.com

Package Size: #EK7264-1 48T #EK7264-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Rat High affinity choline transporter 1 (SLC5A7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	CHT; CHT1; MGC126299; MGC126300; hCHT; OTTHUMP00000203760 high affinity choline transporter; hemicholinium-3-sensitive choline transporter
Accession No.	Q9JMD7
Uniprot	Q9JMD7
GeneID	85426;
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:78.12-5000 pg/mL

Sensitivity:28 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 SLC5A7 in samples. An antibody specific for SLC5A7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC5A7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC5A7 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 SLC5A7 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Choline is a direct precursor of acetylcholine (ACh), a neurotransmitter of the central and peripheral nervous system that regulates a variety of autonomic, cognitive, and motor functions. SLC5A7 is a Na(+)- and Cl(-)- dependent high-affinity transporter that mediates the uptake of choline for acetylcholine synthesis in cholinergic neurons. The deduced 580-amino acid protein has a calculated molecular mass of 63.2 kD.

CHT has 13 transmembrane (TM) domains, a short extracellular N terminus, and a long cytoplasmic C terminus. It contains 3 putative N-glycosylation sites and several phosphorylation sites. CHT shares 93% amino acid identity with rat Cht and 51% amino acid identity with its nematode homolog, Cho1.

---

Note: This product is for in vitro research use only