

## Rat Serotonin transporter (5-HTT/SERT) ELISA Kit

Catalog No: #EK7258



Package Size: #EK7258-1 48T #EK7258-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Rat Serotonin transporter (5-HTT/SERT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	5-HTT; 5-HTTLPR; 5HTT; HTT; OCD1; SERT; hSERT; 5-hydroxytryptamine transporter 5HT transporter Na <sup>+</sup> /Cl <sup>-</sup> dependent serotonin transporter OTTHUMP00000163633 sodium-dependent serotonin transporter solut
Accession No.	P31652
Uniprot	P31652
GeneID	25553;
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 SLC6A4 in samples. An antibody specific for SLC6A4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC6A4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC6A4 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 SLC6A4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The serotonin transporter (SERT) is a monoamine transporter protein.This protein is an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. This transport of serotonin by the SERT protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is a target of psychomotor stimulants, such as amphetamine, cocaine, and MDMA, and is a member of the sodium:neurotransmitter symporter family. A repeat length polymorphism in the promoter of this gene has been shown to affect the rate of serotonin uptake and may play a role in sudden infant death syndrome, aggressive behavior in Alzheimer disease patients, post-traumatic stress disorder and depression-susceptibility in people experiencing emotional trauma.

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Note: This product is for in vitro research use only