Mouse Tryptophan 5-hydroxylase 2 (TPH2) ELISA Kit

Catalog No: #EK6035

Package Size: #EK6035-1 48T #EK6035-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse Tryptophan 5-hydroxylase 2 (TPH2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ADHD7; FLJ37295; MGC138871; MGC138872; NTPH; neuronal tryptophan hydroxylase|tryptophan 5-monooxygenase 2
Accession No.	Q8CGV2
Uniprot	Q8CGV2
GeneID	216343;
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:0.156-10 ng/mL

Sensitivity:0.056 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 TPH2 in samples. An antibody specific for TPH2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTPH2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPH2 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 TPH2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TPH2 encodes a member of the pterin-dependent aromatic acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. The human genome contains two related tryptophan hydroxylases, one on chromosome 11p15-p14 and one on chromosome 12q21. This gene is expressed predominantly in the brain stem. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression.

This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by the mouse ortholog.

Note: This product is for in vitro research use only