

Rat Tryptophan Hydroxylase (TPH) ELISA Kit | TPH elisa kit

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CATALOG #
AAA330174

REACTIVITY
Rat

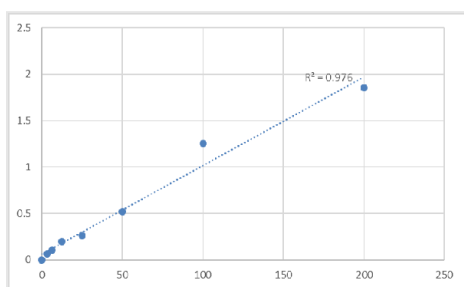
PRODUCT SYNONYMS

Tryptophan Hydroxylase (TPH); Rat Tryptophan Hydroxylase (TPH) ELISA Kit; TPH1; MGC119994; TPRH; TRPH; L-tryptophan hydroxylase; indoleacetic acid-5-hydroxylase; tryptophan hydroxylase (tryptophan 5-monoxygenase); TPH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Tryptophan Hydroxylase (TPH) ELISA Kit has high sensitivity and excellent specificity for detection of Rat TPH1. No significant cross-reactivity or interference between Rat TPH1 and analogues was observed.
Sequence Length	444
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Tryptophan Hydroxylase (TPH) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TPH elisa kit	Description: This Rat Tryptophan Hydroxylase (TPH) ELISA Kit employs a two-site sandwich ELISA to quantitate TPH1 in samples. An antibody specific for TPH1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPH1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPH1 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 TPH1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126723694
NCBI GeneID	100009100
NCBI Accession #	NP_001075741.1
NCBI GenBank Nucleotide #	NP_001075741.1
UniProt Accession #	P17290
NCBI Official Full Name	tryptophan 5-hydroxylase 1
NCBI Official Symbol	TPH1
NCBI Official Synonym Symbols	TPH; TPH2
NCBI Protein Information	tryptophan 5-hydroxylase 1
UniProt Protein Name	Tryptophan 5-hydroxylase 1
UniProt Gene Name	TPH1
UniProt Synonym Gene Names	TPH
UniProt Entry Name	TPH1_RABIT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/tryptophan-hydroxylase-tph/330174>