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Rabbit Anti-phospho-TPH (Ser260) antibody

SL5601R

Product Name:	phospho-TPH (Ser260)
Chinese Name:	磷酸化色氨酸羟化酶抗体
Alias:	Tph1(phospho S260); TPH (phospho Ser260); p-TPH (Ser260); MGC119994; TPH 1; TPH; TPH1; TPRH; Tryptophan 5 hydroxylase 1; Tryptophan 5 monooxygenase 1; Tryptophan 5 monooxygenase; Tryptophan hydroxylase 1; Tryptophan 5-hydroxylase 1; TPH1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	49kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human TPH around the phosphorylation site of Ser260:HS(p-S)DP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a member of the aromatic amino acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated

with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others.[provided by RefSeq, Apr 2009].

Subunit:
Homotetramer (By similarity).

Tissue Specificity:
Isoform 2 seems to be less widely expressed than isoform 1.

Similarity:
Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.
Contains 1 ACT domain.

SWISS:
P17752

Gene ID:
7166

Database links:

Entrez Gene: 7166Human

Entrez Gene: 21990Mouse

Entrez Gene: 24848Rat

Omim: 191060Human

SwissProt: P17752Human

SwissProt: P17532Mouse

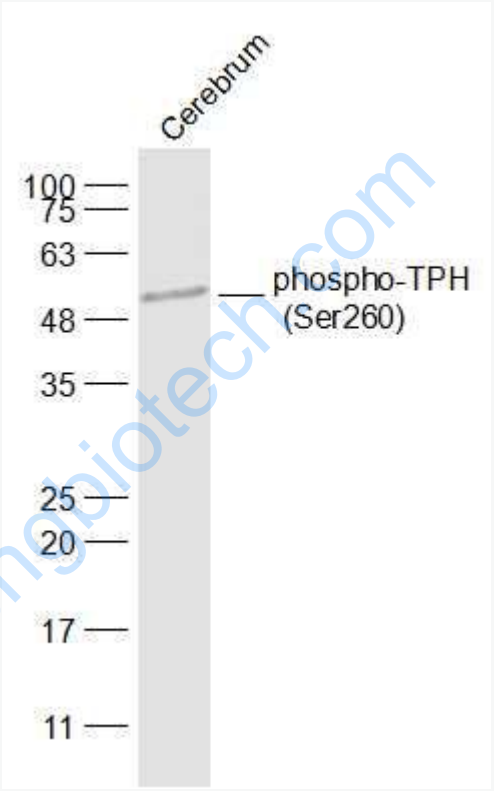
SwissProt: P09810Rat

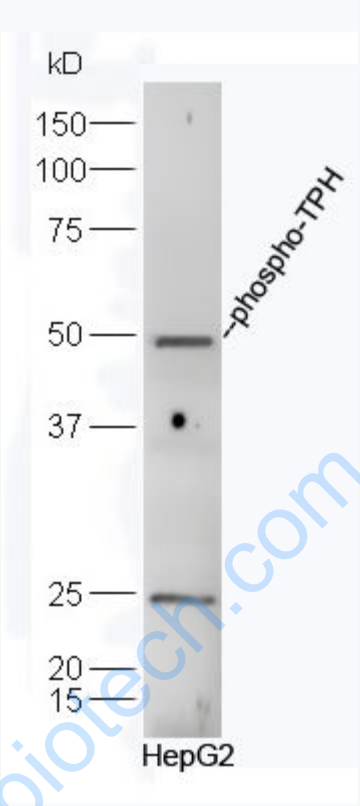
Unigene: 591999Human

Unigene: 248684Mouse

Unigene: 94788Rat

Important Note:
This product as supplied is intended for research use only, not for use in human,

	therapeutic or diagnostic applications. 色氨酸在脑中首先由色氨酸羟化酶(tryoptophan hydroxylase)催化生成5羟色氨酸(5□hydroxy□tryptophan)，再经脱羧酶作用生成5羟色胺，色氨酸羟化酶（TPH）是5-HT生物合成的限速酶，因此，色氨酸羟化酶的缺少可导致5-羟色胺的含量下降。色氨酸羟化酶主要在肝脏内代谢。
Picture:	 Sample: Cerebrum(Rat) Lysate at 40 ug Primary: Anti-phospho-TPH (Ser260) (SL5601R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 49 kD



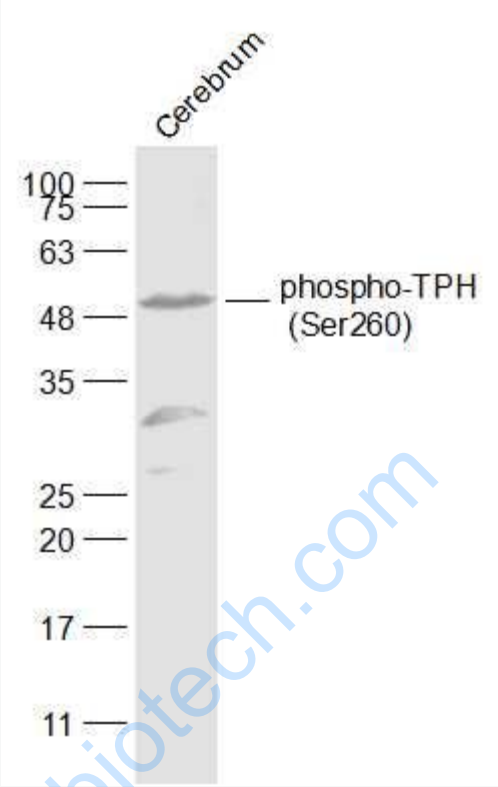
Sample: HepG2 Cell (Human) Lysate at 40 ug

Primary: Anti-phospho-TPH (Ser260) (SL5601R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL5601R) at 1/5000 dilution

Predicted band size: 49 kD

Observed band size: 49 kD



Sample:

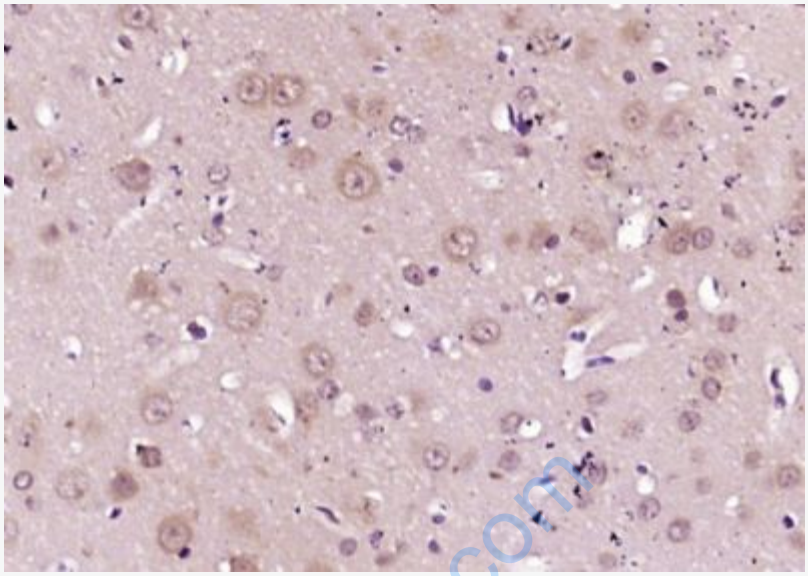
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-phospho-TPH (Ser260) (SL5601R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

Observed band size: 49 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TPH (Ser260)) Polyclonal Antibody, Unconjugated (SL5601R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.