

## Product datasheet for **TA334765**

### Tryptophan 5 hydroxylase 2 (TPH2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-TPH2 antibody: synthetic peptide directed towards the middle region of human TPH2. Synthetic peptide located within the following region: KMRDFAKSITRPFSVYFNPYTSIEILKDTRSIENVVQDLRSDLNTVCDA
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56 kDa
Gene Name:	tryptophan hydroxylase 2
Database Link:	<a href="#">NP_775489</a> <a href="#">Entrez Gene 121278 Human</a> <a href="#">Q8IWU9</a>



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**Background:**

Tryptophan hydroxylase (TPH; EC 1.14.16.4) is the rate-limiting enzyme in the synthesis of serotonin (5-hydroxytryptamine, or 5HT). 5HT is causally involved in numerous central nervous activities, and it has several functions in peripheral tissues, including the maintenance of vascular tone and gut motility. This gene 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. Sequence Note: 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ\_SPAN PRIMARY\_IDENTIFIER PRIMARY\_SPAN COMP 1-1805 AY098914.1 1-1805 1806-2360 AC090109.15 122981-123535

**Synonyms:**

ADHD7; NTPH

**Note:**

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 100%; Guinea pig: 100%; Horse: 86%

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Metabolic pathways, Tryptophan metabolism

**Product images:**

WB Suggested Anti-TPH2 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:500; Positive Control: Human brain