



# Anti-TPH1 (aa 1-117) polyclonal antibody (DPAB-DC3098)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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]
<b>Immunogen</b>	TPH1 (NP_004170, 1 a.a. ~ 117 a.a) partial recombinant protein with GST tag. The sequence is MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLHIESRKSKRRNSEF EIFVDCDINREQLNDIFHLLKSHTNVLSVNLDPNFTLKEDGMETVPWFPPKISDLDH
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TPH1 tryptophan hydroxylase 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	TPH1
<b>Synonyms</b>	TPH1; tryptophan hydroxylase 1; TPRH; TRPH; tryptophan 5-hydroxylase 1; L-tryptophan hydroxylase; tryptophan 5-monooxygenase 1; indoleacetic acid-5-hydroxylase; tryptophan hydroxylase (tryptophan 5-monooxygenase);
<b>Entrez Gene ID</b>	<a href="#">7166</a>
<b>Protein Refseq</b>	<a href="#">NP_004170</a>
<b>UniProt ID</b>	<a href="#">P17752</a>
<b>Chromosome Location</b>	11p15.3-p14
<b>Pathway</b>	Amine-derived hormones; Melatonin biosynthesis, tryptophan => melatonin; serotonin =>
<b>Function</b>	amino acid binding; iron ion binding; tryptophan 5-monooxygenase activity;