



Human TPH2 blocking peptide (CDBP3086)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Tryptophan hydroxylase 2/TPH2 antibody
Antigen Description	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. [provided by RefSeq, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	TPH2 tryptophan hydroxylase 2 [Homo sapiens]
Official Symbol	TPH2
Synonyms	TPH2; tryptophan hydroxylase 2; tryptophan 5-hydroxylase 2; FLJ37295; NTPH; tryptophan 5-

monooxygenase 2; neuronal tryptophan hydroxylase; ADHD7; MGC138871; MGC138872;

Entrez Gene ID	121278
mRNA Refseq	NM_173353
Protein Refseq	NP_775489
UniProt ID	Q8IWU9
Chromosome Location	12q15
Pathway	Amine-derived hormones, organism-specific biosystem; Melatonin biosynthesis, tryptophan => serotonin => melatonin, organism-specific biosystem; Melatonin biosynthesis, tryptophan => serotonin => melatonin, conserved biosystem;
Function	amino acid binding; iron ion binding; metal ion binding; tryptophan 5-monooxygenase activity;