TPH2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TPH2, Polyclonal Antibody
Full Product Name	Rabbit Anti Human TPH2 Polyclonal Affinity Purified (PBS with 0.02% sodium azide, 50% glycerol, pH7.3)(Western Blot)
Product Gene Name	anti-TPH2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	It is a polyclonal antibody in a liquid format, buffered in PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	56,057 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (72332626..72426221). Location: 12q21.1
3D Structure	ModBase 3D Structure for Q8IWU9
Immunogen	A synthetic peptide of human TPH2 (NP_775489.2).
Applications Tested/Suitable for anti-TPH2 antibody	Western Blot (WB)
Related Product Information for anti-TPH2 antibody	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. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression. This product can be used in analytical tools such as Western Blot.
Other Notes	Small volumes of anti-TPH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TPH2 purchase	MBS8424891 is an antibody targeting TPH2. Also known as Rabbit Anti Human TPH2 Polyclonal Affinity Purified (PBS with 0.02% sodium azide, 50% glycerol, pH7.3)(Western Blot). Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPH2. It may not necessarily be applicable to this product.

NCBI GI #	31795563
NCBI GeneID	121278
NCBI Accession #	NP_775489.2
UniProt Primary Accession #	Q8IWU9
UniProt Secondary Accession #	Q14CB0; A6NGA4
UniProt Related Accession #	Q8IWU9

GenBank Nucleotide #	NM_173353.3
NCBI Official Full Name	tryptophan 5-hydroxylase 2
NCBI Official Synonym Full Names	tryptophan hydroxylase 2
NCBI Official Symbol	TPH2
NCBI Official Synonym Symbols	NTPH; ADHD7
Protein Family	Tryptophan 5-hydroxylase
NCBI Protein Information	tryptophan 5-hydroxylase 2; tryptophan 5-monooxygenase 2; neuronal tryptophan hydroxylase
NCBI Summary for TPH2	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]
Research Articles on TPH2	**1.** This studty the Tph2KI mice carrying the Tph2(R439H) allele exhibit an increase in AMY-mPFC delta synchrony.
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