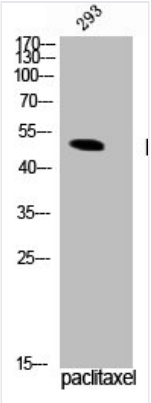
TPH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TPH1, Polyclonal Antibody
Full Product Name	Phospho-TPH1 (S58) Antibody
Product Gene Name	anti-TPH1 antibody
Product Synonym Names	TPH1; TPH; TPRH; TRPH; Tryptophan 5-hydroxylase 1; Tryptophan 5-monooxygenase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	50,985 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (18042084..18062335, complement). Location: 11p15.3-p14
OMIM	191060
3D Structure	ModBase 3D Structure for P17752
Immunogen	Synthesized peptide derived from human TPH1 around the phosphorylation site of S58.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-TPH1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TPH1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-TPH1 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 ELISA: 1:10000
Related Product Information for anti-TPH1 antibody	MBS7118649 is an antibody targeting TPH1. Also known as Phospho-TPH1 (S58) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-TPH1 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.



Western Blot (WB) of anti-TPH1 antibody
Western Blot analysis of 293 cells using Phospho-TPH1 (S58) Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPH1. It may not necessarily be applicable to this product.

NCBI GI #	4759248
NCBI GeneID	7166
NCBI Accession #	NP_004170.1
UniProt Primary Accession #	P17752
UniProt Secondary Accession #	O95188; O95189; Q16736; Q3KPG8; D3DQX6
UniProt Related Accession #	P17752
GenBank Nucleotide #	NM_004179.2
NCBI Official Full Name	tryptophan 5-hydroxylase 1
NCBI Official Synonym Full Names	tryptophan hydroxylase 1
NCBI Official Symbol	TPH1
NCBI Official Synonym Symbols	TPRH; TRPH
UniProt Protein Name	Tryptophan 5-hydroxylase 1
UniProt Synonym Protein Names	Tryptophan 5-monooxygenase 1
Protein Family	Tryptophan 5-hydroxylase
UniProt Gene Name	TPH1
UniProt Synonym Gene Names	TPH; TPRH; TRPH
UniProt Entry Name	TPH1_HUMAN
NCBI Protein Information	tryptophan 5-hydroxylase 1; L-tryptophan hydroxylase; tryptophan 5-monooxygenase 1; indoleacetic acid-5-hydroxylase; tryptophan hydroxylase (tryptophan 5-monooxygenase)
NCBI Summary for TPH1	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]

UniProt Comments for TPH1	TPH1: an enzyme that is rate-limiting in the biosynthesis of serotonin. It catalyzes the biopterin dependent monooxygenation of tryptophan to 5-hydroxytryptophan (5HT), which is subsequently decarboxylated to form the neurotransmitter serotonin. Its expression is limited to a few specialized tissues: raphe neurons, pinealocytes, mast cells, mononuclear leukocytes, beta-cells of the islets of Langerhans, and intestinal and pancreatic enterochromaffin cells. Two alternatively spliced isoforms have been described. Protein type: Oxidoreductase; Amino Acid Metabolism - tryptophan; EC 1.14.16.4 Chromosomal Location of Human Ortholog: 11p15.3-p14 Cellular Component: neuron projection; cytosol Molecular Function: amino acid binding; tryptophan 5-monooxygenase activity; iron ion binding Biological Process: circadian rhythm; aromatic amino acid family metabolic process; indolalkylamine biosynthetic process; negative regulation of ossification; positive regulation of fat cell differentiation; bone remodeling; serotonin biosynthetic process
Research Articles on TPH1	**1.** The GGCCGGGC haplotype in the first haplotype block of TPH1 was significantly associated with middle insomnia.
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