

AP05911PU-N**Polyclonal Antibody to Tryptophan 5-hydroxylase 1 (TPH1)
pSer58 - Purified**

Alternate names:	TPRH, TRPH, Tryptophan 5-monooxygenase 1
Quantity:	0.1 ml
Background:	TPH catalyses the 5-hydroxylation of tryptophan, in the first stage in indolamine biosynthesis (e.g. serotonin and melatonin). The activity of TPH is enhanced by phosphorylation of Ser58, by cAMP dependent protein kinase (PKA) and Ca ²⁺ /calmodulin kinase II (CAMKII).
Uniprot ID:	P17752
NCBI:	NP_004170.1
GeneID:	7166
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic phosphopeptide corresponding to an amino acid sequence within Tryptophan Hydroxylase which includes phosphorylated Ser58.
Format:	State: Liquid purified Ig Purification: Affinity chromatography Buffer System: 10mM HEPES, pH7.5 containing 0.09% Sodium Azide, 0.01% Bovine Serum Albumin and 50% Glycerol
Applications:	Western Blot: 1:1000; detects a band of approximately 55kDa. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific for tryptophan hydroxylase (TPH), when phosphorylated at serine 58. Species: Rabbit. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Caution:	(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
General Readings:	1. Banik U, Wang GA, Wagner PD, Kaufman S. Interaction of phosphorylated tryptophan hydroxylase with 14-3-3 proteins. J Biol Chem. 1997 Oct 17;272(42):26219-25. PubMed PMID: 9334190.