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Product datasheet for TA392956M

Tryptophan Hydroxylase (TPH1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human TPH1 around the phosphorylation site of Ser260.
Specificity:	TPH1 (phospho-S260) polyclonal antibody detects endogenous levels of TPH1 protein when phosphorylated at Ser260.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 51 kDa
Gene Name:	tryptophan hydroxylase 1
Database Link:	Entrez Gene 7166 Human P17752
Background:	Phenylalanine hydroxylase (PAH), tyrosine hydroxylase (TH) and tryptophan hydroxylase (TPH) comprise a small family of monooxygenases that use tetrahydropterine as a cofactor during the catabolism of aromatic L-amino acids. PAH, TH and TPH all contain catalytic domains with an amino-terminal regulatory domain and a short carboxy-terminal tetramerization domain. Each of these enzymes also contains a single ferrous iron atom, which is bound to two histidines and a glutamate and is likely to be involved in the formation of the hydroxylating intermediate. TPH is the first and rate-limiting step in the biosynthesis of serotonin in the central nervous system and melatonin in the pineal gland.

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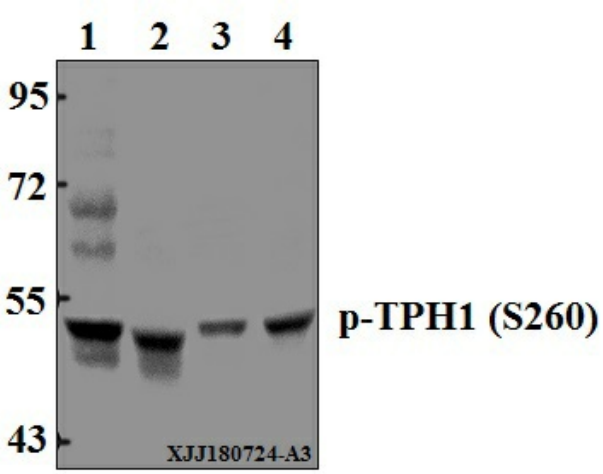
Synonyms: TPH; TPH1; TPRH; TRPH; Tryptophan 5-hydroxylase 1; Tryptophan 5-monooxygenase 1

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of p-TPH1 (S260) pAb at 1:500 dilution Lane1:HEK293T whole cell lysate(40µg) Lane2:The Lung tissue lysate of Mouse(40µg) Lane3:LO2 whole cell lysate(40µg) Lane4:C6 whole cell lysate(40µg)