



# TPH2 (phospho Ser19) Polyclonal Antibody

<b>Catalog No</b>	BYab-02399
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	TPH2
<b>Protein Name</b>	Tryptophan 5-hydroxylase 2
<b>Immunogen</b>	Synthesized phospho-peptide around the phosphorylation site of human TPH2 (phospho Ser19)
<b>Specificity</b>	Phospho-TPH2 (S19) Polyclonal Antibody detects endogenous levels of TPH2 protein only when phosphorylated at S19.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	TPH2; NTPH; Tryptophan 5-hydroxylase 2; Neuronal tryptophan hydroxylase; Tryptophan 5-monooxygenase 2
<b>Observed Band</b>	56kD
<b>Cell Pathway</b>	cytosol,neuron projection,
<b>Tissue Specificity</b>	Brain specific.
<b>Function</b>	catalytic activity:L-tryptophan + tetrahydrobiopterin + O(2) = 5-hydroxy-L-tryptophan + 4a-hydroxytetrahydrobiopterin.,cofactor:Fe(2+) ion.,disease:Genetic variation in TPH2 may influence susceptibility to major depressive disorder (MDD) [MIM:608516].,pathway:Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.,similarity:Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.,similarity:Contains 1 ACT domain.,tissue specificity:Brain specific.,

Nanjing BYabscience technology Co.,Ltd



**Background**

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. [provided by RefSeq, Feb 2016],

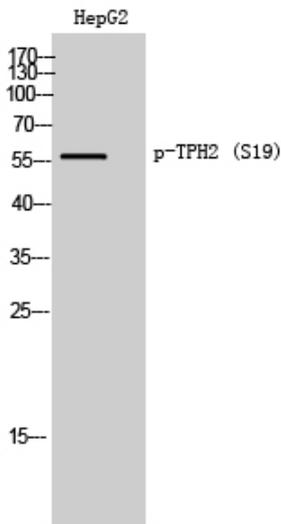
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis of HepG2 cells using Phospho-TPH2 (S19) Polyclonal Antibody