

**TPH2 (phospho Ser19) Polyclonal Antibody**

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| <b>Catalog No :</b>          | YP0501  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;ELISA  |
| <b>Target :</b>              | TPH2  |
| <b>Fields :</b>              | >>Tryptophan metabolism;>>Folate biosynthesis;>>Metabolic pathways;>>Serotonergic synapse                         |
| <b>Gene Name :</b>           | TPH2  |
| <b>Protein Name :</b>        | Tryptophan 5-hydroxylase 2  |
| <b>Human Gene Id :</b>       | 121278  |
| <b>Human Swiss Prot No :</b> | Q8IWU9  |
| <b>Mouse Gene Id :</b>       | 216343  |
| <b>Mouse Swiss Prot No :</b> | Q8CGV2  |
| <b>Rat Gene Id :</b>         | 317675  |
| <b>Rat Swiss Prot No :</b>   | Q8CGU9  |
| <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>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.  |

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| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Observed Band :</b>        | 56kD   |
| <b>Cell Pathway :</b>         | Tryptophan metabolism;   |
| <b>Background :</b>           | 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],   |
| <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., |
| <b>Subcellular Location :</b> | cytosol,neuron projection,   |
| <b>Expression :</b>           | Brain specific.  |
| <b>Sort :</b>                 | 23453  |
| <b>No4 :</b>                  | 1  |
| <b>Host :</b>                 | Rabbit   |
| <b>Modifications :</b>        | Phospho  |

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## Products Images

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

