

**TPH1 (phospho Ser58) Polyclonal Antibody**

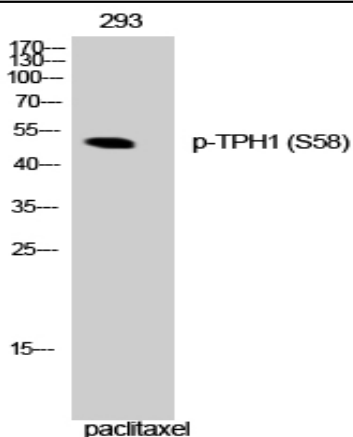
<b>Catalog No :</b>	YP0747
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Tryptophan Hydroxylase
<b>Fields :</b>	>>Tryptophan metabolism;>>Folate biosynthesis;>>Metabolic pathways;>>Serotonergic synapse
<b>Gene Name :</b>	TPH1
<b>Protein Name :</b>	Tryptophan 5-hydroxylase 1
<b>Human Gene Id :</b>	7166
<b>Human Swiss Prot No :</b>	P17752
<b>Mouse Gene Id :</b>	21990
<b>Mouse Swiss Prot No :</b>	P17532
<b>Rat Gene Id :</b>	24848
<b>Rat Swiss Prot No :</b>	P09810
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Tryptophan Hydroxylase around the phosphorylation site of Ser58. AA range:26-75
<b>Specificity :</b>	Phospho-TPH1 (S58) Polyclonal Antibody detects endogenous levels of TPH1 protein only when phosphorylated at S58.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

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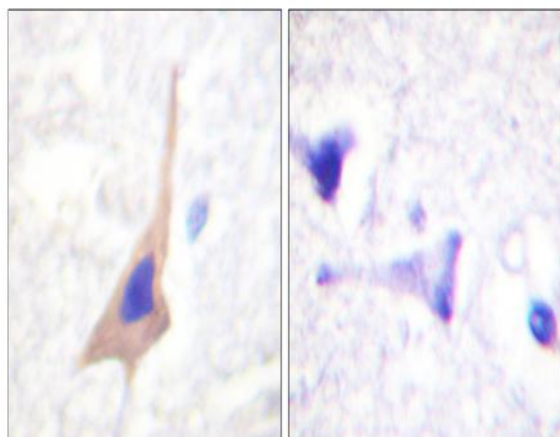
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	51kD
<b>Cell Pathway :</b>	Tryptophan metabolism;
<b>Background :</b>	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],
<b>Function :</b>	catalytic activity:L-tryptophan + tetrahydrobiopterin + O(2) = 5-hydroxy-L-tryptophan + 4a-hydroxytetrahydrobiopterin.,cofactor:Fe(2+) ion.,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.,subunit:Multimer of identical subunits.,tissue specificity:Isoform 2 seems to be less widely expressed than isoform 1.,
<b>Subcellular Location :</b>	cytosol,neuron projection,
<b>Expression :</b>	[Isoform 2]: Seems to be less widely expressed than isoform 1.

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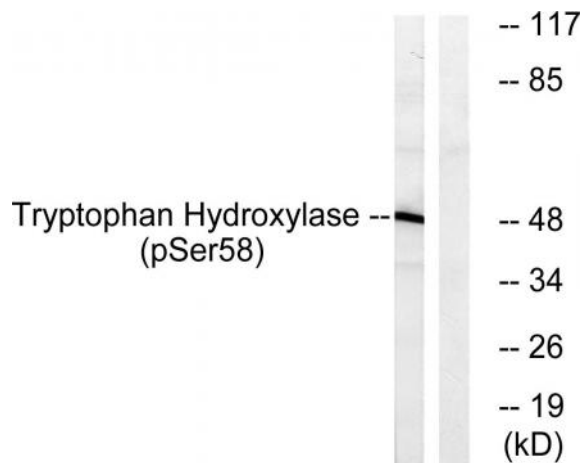
## Products Images



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



Immunohistochemistry analysis of paraffin-embedded human brain, using Tryptophan Hydroxylase (Phospho-Ser58) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with paclitaxel 1uM 24h, using Tryptophan Hydroxylase (Phospho-Ser58) Antibody. The lane on the right is blocked with the phospho peptide.