

TPH1 (phospho Ser58) Polyclonal Antibody

Catalog No: YP0747

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Tryptophan Hydroxylase

Fields: >>Tryptophan metabolism;>>Folate biosynthesis;>>Metabolic

pathways;>>Serotonergic synapse

Gene Name: TPH1

Protein Name: Tryptophan 5-hydroxylase 1

P17752

P17532

Human Gene Id: 7166

Human Swiss Prot

No:

Mouse Gene Id: 21990

Mouse Swiss Prot

No:

Rat Gene Id: 24848

Rat Swiss Prot No: P09810

Immunogen: The antiserum was produced against synthesized peptide derived from human

Tryptophan Hydroxylase around the phosphorylation site of Ser58. AA

range:26-75

Specificity: Phospho-TPH1 (S58) Polyclonal Antibody detects endogenous levels of TPH1

protein only when phosphorylated at S58.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

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Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 51kD

Cell Pathway: Tryptophan metabolism;

Background: 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],

Function: 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.,

Subcellular

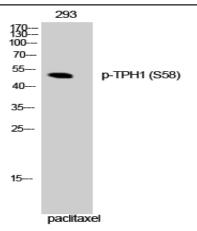
Location:

cytosol,neuron projection,

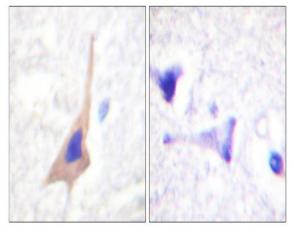
Expression: [Isoform 2]: Seems to be less widely expressed than isoform 1.

Products Images

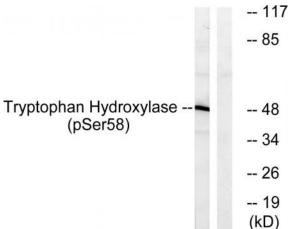
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Western Blot analysis of 293 cells using Phospho-TPH1 (S58) Polyclonal Antibody



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.