Best Tools for immunology Research

TPH2 (phospho Ser19) Polyclonal Antibody

Catalog No :	YP0501
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	TPH2
Fields :	>>Tryptophan metabolism;>>Folate biosynthesis;>>Metabolic pathways;>>Serotonergic synapse
Gene Name :	TPH2
Protein Name :	Tryptophan 5-hydroxylase 2
Human Gene Id :	121278
Human Swiss Prot No :	Q8IWU9
Mouse Gene Id :	216343
Mouse Swiss Prot No :	Q8CGV2
Rat Gene Id :	317675
Rat Swiss Prot No :	Q8CGU9
Immunogen :	Synthesized phospho-peptide around the phosphorylation site of human TPH2 (phospho Ser19)
Specificity :	Phospho-TPH2 (S19) Polyclonal Antibody detects endogenous levels of TPH2 protein only when phosphorylated at S19.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

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 : 56kD

Cell Pathway : Tryptophan metabolism;

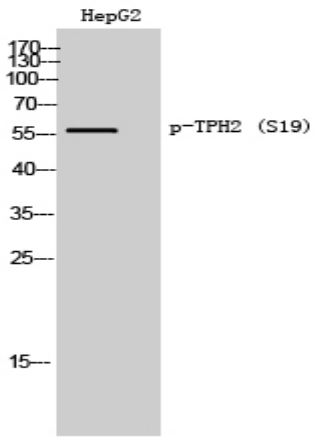
Background : This gene encodes a member of the pterin-dependent aromatic acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression. [provided by RefSeq, Feb 2016],

Function : 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.,

Subcellular Location : cytosol,neuron projection,

Expression : Brain specific.

Products Images



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