

TPH2 Polyclonal Antibody

Catalog No: YT4711

Reactivity: Human; Mouse; Rat; Monkey

Applications: WB;ELISA

Target: TPH2

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

pathways;>>Serotonergic synapse

Gene Name: TPH2

Protein Name: Tryptophan 5-hydroxylase 2

Q8IWU9

Q8CGV2

Human Gene Id: 121278

Human Swiss Prot

No:

Mouse Gene Id: 216343

Mouse Swiss Prot

No:

Rat Gene Id: 317675

Rat Swiss Prot No: Q8CGU9

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

TPH2. AA range:4-53

Specificity: TPH2 Polyclonal Antibody detects endogenous levels of TPH2 protein.

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.

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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.

Tag: orthogonal

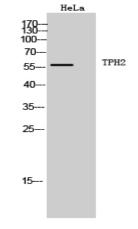
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No4: 1

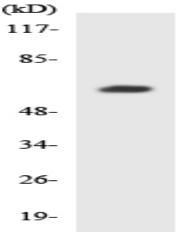
Host: Rabbit

Modifications: Unmodified

Products Images



Western Blot analysis of HeLa cells using TPH2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



TPH2

Western blot analysis of the lysates from HUVECcells using TPH2 antibody.