

# **TPH1 Polyclonal Antibody**

### Description

Product type Primary Antibody

Code BT-AP09151

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human Tryptophan Hydroxylase.

AA range:26-75

Mol wt 50985

Species reactivity Human, Mouse, Rat

**Clonality** Polyclonal

Recommended application WB, IHC-p, IF, ELISA

Concentration 1 mg/ml

Full name TPH1 Antibody

Synonyms TPH1; TPH; TPRH; TRPH; Tryptophan 5-hydroxylase 1; Tryptophan 5-monooxygenase 1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

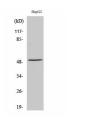
TPH1 encodes a member of the aromatic amino acid hydroxylase family. The tryptophan 5-hydroxylase 1 catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene have been associated with an elevated risk for a variety of diseases and disorders, including schizophrenia, somatic anxiety, anger-related traits, bipolar disorder, suicidal behavior, addictions, and others.

## Recommended Dilution

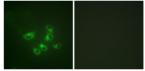
WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 IF: 1: 200 - 1: 1000 ELISA: 1: 20000

Not yet tested in other applications.

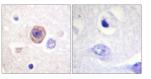
#### **Images**



Western Blot analysis of various cells using TPH1 Polyclonal Antibody. Secondary antibody was diluted at 1:20000



Immunofluorescence analysis of HepG2 cells, using Tryptophan Hydroxylase Antibody. The picture on the right is blocked with the synthesized peptide.



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TH— -49 -34 -25 (kD)

Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Tryptophan Hydroxylase Antibody. The picture on the right is blocked with the synthesized peptide.

Western blot analysis of lysates from HepG2 cells, using Tryptophan Hydroxylase Antibody. The lane on the right is blocked with the synthesized peptide.

## Storage

-20°C for one year

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