

# **TPH1 Polyclonal Antibody**

#### Description

Product type Primary Antibody

Code BT-AP09150

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

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

AA range:231-280

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 (tryptophan hydroxylase 1) 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 TPH1 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

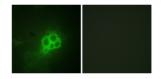
WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 IF: 1: 200 - 1: 1000 ELISA: 1: 20000

Not yet tested in other applications.

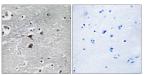
### Images

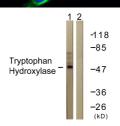


Western Blot analysis of HepG2 cells using TPH1 Polyclonal Antibody diluted at 1:500. Secondary antibody was diluted at 1:20000



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





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

Immunofluorescence analysis of Hela cell. 1,TPH1 Polyclonal Antibody(green) was diluted at  $1:200(4^{\circ} \text{ overnight})$ . 2, Goat Anti Rabbit Alexa Fluor 488 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.

Western blot analysis of lysates from Jurkat 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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