

## Basic Information

<b>Product Name</b>	Anti-TPH1 Antibody
<b>Gene Name</b>	TPH1
<b>Source</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human,mouse,rat
<b>Tested Application</b>	WB, ELISA
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	E. coli-derived human Tryptophan Hydroxylase recombinant protein (Position: M1-K111).
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	51 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000 ELISA: 1:100-1000

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Tryptophan hydroxylase 1 (TPH1) is an isoenzyme of tryptophan hydroxylase which in humans is encoded by the TPH1 gene. 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.

## Reference

Anti-TPH1 Antibody被引用在2文献中。

## Selected Validation Data



Figure 1. Western blot analysis of TPH1 using anti-TPH1 antibody (A01626-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human SGC-7901 whole cell lysates,

Lane 2: rat heart tissue lysates,

Lane 3: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-TPH1 antigen affinity purified polyclonal antibody (A01626-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TPH1 at approximately 51 kDa. The expected band size for TPH1 is at 51 kDa.