

## TPH1 antibody

Catalog No: #38257

Package Size: #38257-1 50ul #38257-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

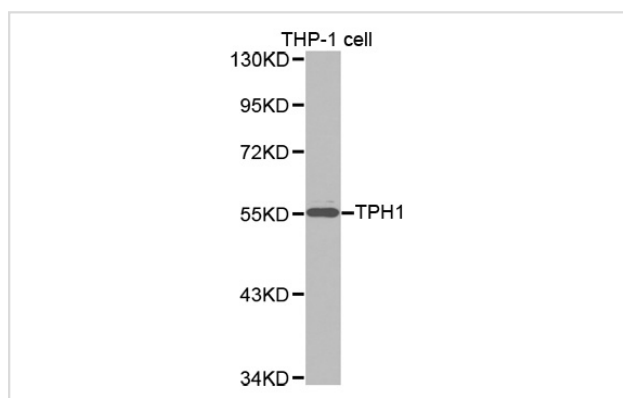
## Description

|                       |  |
|-----------------------|--|
| Product Name          | TPH1 antibody  |
| Host Species          | Rabbit   |
| Clonality             | Polyclonal   |
| Purification          | Antibodies were purified by affinity purification using immunogen.   |
| Applications          | WB   |
| Species Reactivity    | Hu Ms Rt   |
| Specificity           | The antibody detects endogenous level of total TPH1 protein.   |
| Immunogen Type        | Recombinant Protein  |
| Immunogen Description | Recombinant protein of human TPH1.   |
| Target Name           | TPH1   |
| Other Names           | TPH1;MGC119994;TPRH;TRPH;Tryptophan 5-hydroxylase 1;   |
| Accession No.         | Swiss-Prot#: P17752NCBI Gene ID: 7166  |
| SDS-PAGE MW           | 55kd   |
| Concentration         | 1.0mg/ml   |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage               | Store at -20°C   |

## Application Details

Western blotting: □1:500 - 1:2000

## Images



Western blot analysis of extracts of THP-1 cell lines, using TPH1 antibody.

## Background

Tryptophan hydroxylase (TPH) is the rate-limiting enzyme in the biosynthesis of serotonin (1) by converting tryptophan to 5-hydroxy-L-tryptophan (2). Two isoforms of TPH exist: TPH-1 is mainly expressed in the periphery, whereas the expression of TPH-2 is restricted to neuronal cells and the central

nervous system (3). Most of the serotonin found throughout the body is synthesized by TPH-1 in enterochromaffin cells of the gastrointestinal tract. Targeted disruption of the tph1 gene results in low levels of circulating and tissue serotonin (4).

## Published Papers

el at., 5-HT<sub>2A</sub> Receptor and 5-HT Degradation Play a Crucial Role in Atherosclerosis by Modulating Macrophage Foam Cell Formation, Vascular Endothelial Cell Inflammation, and Hepatic Steatosis In J Atheroscler Thromb on 2022 Mar 1 by Yingying Ma, Xiurui Liang,et al..PMID: 33536397, , (2022)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.