

TPH1 antibody

Catalog No: #38257

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

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

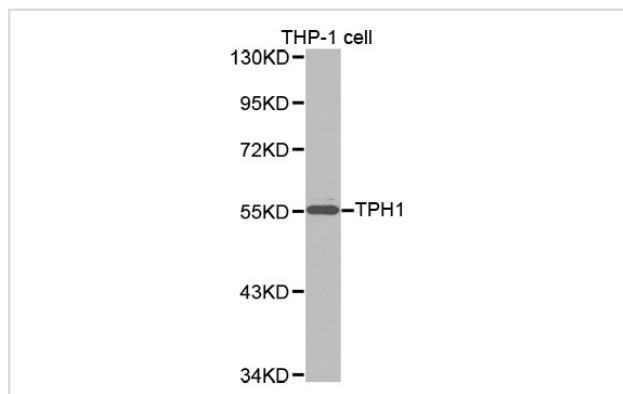
Description

Product Name	TPH1 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total TPH1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human TPH1.
Conjugates	Unconjugated
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 ²⁺ and Ca ²⁺), 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_{2A} 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 2021 Feb 2 by Yingying Ma, Xiurui Liang,et al..PMID: 33536397, , (2021)
[PMID:33536397](#)

el at., 5-HT_{2A} 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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Jing Guan;Xin Tong;Yi Zhang;Fan Xu;Yuxin Zhang;Xiurui Liang;Jiaqi Jin;Hongyan Jing;Liuxian Guo;Xinrui Ni;Jihua Fu el at., Nephrotoxicity induced by cisplatin is primarily due to the activation of the 5-hydroxytryptamine degradation system in proximal renal tubules, , (2021)
[PMID:](#)

Fan Xu;Jiaqi Jin;Yi Zhang;Jing Guan;Xiurui Liang;Yuxin Zhang;Ansheng Yuan;Runkun Liu;Jihua Fu el at., The activation of 5-hydroxytryptamine degradation system in proximal renal tubular epithelial cells induced by renal ischemia-reperfusion injury, , (2021)
[PMID:](#)

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