

For Research Use Only

# TH Polyclonal antibody

Catalog Number: 25859-1-AP **165 Publications**



## Basic Information

<b>Catalog Number:</b> 25859-1-AP	<b>GenBank Accession Number:</b> BC104967	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 800 ug/ml	<b>GeneID (NCBI):</b> 7054	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P07101	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> tyrosine hydroxylase	IHC 1:500-1:2000
<b>Immunogen Catalog Number:</b> AG23075	<b>Calculated MW:</b> 528 aa, 59 kDa	IF-P 1:200-1:800
	<b>Observed MW:</b> 50-55 kDa	IF-Fro 1:200-1:800

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, IF-Fro, IP, ELISA	<b>Positive Controls:</b> WB : rat brain tissue, IP : mouse brain tissue, IHC : mouse brain tissue, IF-P : mouse brain tissue, IF-Fro : mouse brain tissue,
<b>Cited Applications:</b> WB, IHC, IF, ELISA	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat, canine, zebrafish, gerbil	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

TH (Tyrosine 3-monooxygenase) converts L-tyrosine to L-3,4-dihydroxyphenylalanine (L-DOPA), the essential and rate-limiting step to formation of dopamine and other catecholamines. TH plays an important role in the physiology of adrenergic neurons and can be used as a marker for dopaminergic and noradrenergic neurons. This protein has 6 isoforms produced by alternative splicing with the MW from 44 kDa to 58 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhuqing Li	34607159	Redox Biol	IHC
Yuanhui Zhu	32926778	ACS Chem Neurosci	WB
Bailu Duan	36073658	Chem Biodivers	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

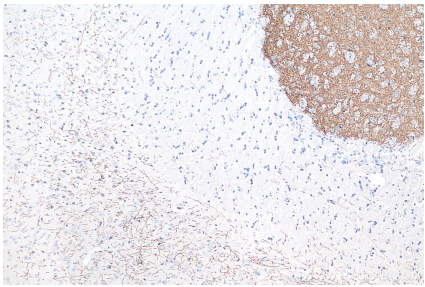
Selected Validation Data



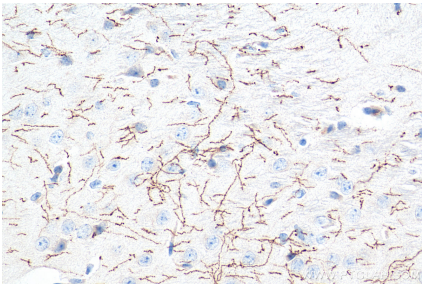
Various lysates were subjected to SDS PAGE followed by western blot with 25859-1-AP (TH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



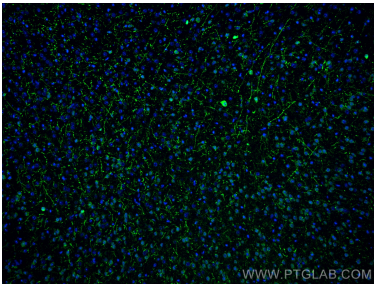
IP result of anti-TH (IP:25859-1-AP, 4ug; Detection:25859-1-AP 1:20000) with mouse brain tissue lysate 2120 ug.



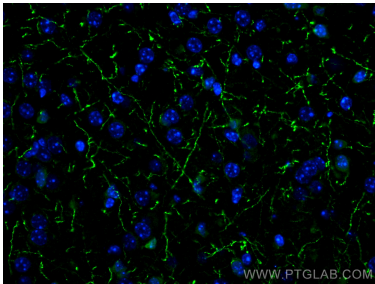
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25859-1-AP (TH antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



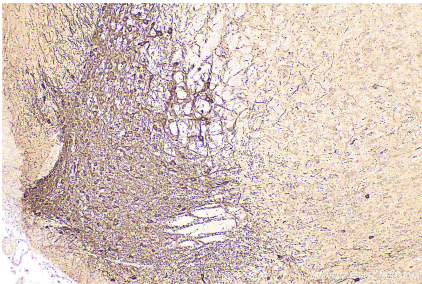
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25859-1-AP (TH antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



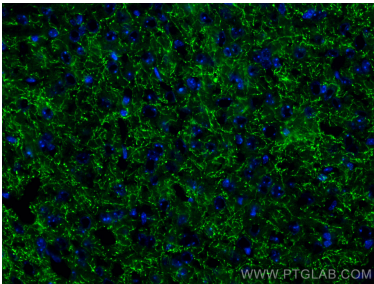
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TH antibody (25859-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TH antibody (25859-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25859-1-AP (TH antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using TH antibody (25859-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).