

For Research Use Only

TH Polyclonal antibody

Catalog Number: 25859-1-AP 175 Publications



Basic Information

Catalog Number: 25859-1-AP	GenBank Accession Number: BC104967	Purification Method: Antigen affinity purification
Concentration: 800 ug/ml	GeneID (NCBI): 7054	Recommended Dilutions: WB: 1:5000-1:50000
Source: Rabbit	UNIPROT ID: P07101	IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: tyrosine hydroxylase	IHC: 1:500-1:2000
Immunogen Catalog Number: AG23075	Calculated MW: 528 aa, 59 kDa	IF-P: 1:200-1:800
	Observed MW: 55-60 kDa	IF-Fro: 1:50-1:500
		IF/ICC: 1:50-1:500

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, IF-Fro, IP, ELISA	Positive Controls: WB : rat brain tissue, IP : mouse brain tissue, IHC : mouse brain tissue, IF-P : mouse brain tissue, IF-Fro : rat brain tissue, IF/ICC : PC-12 cells,
Cited Applications: WB, IHC, IF, ELISA	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat, canine, zebrafish, gerbil	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

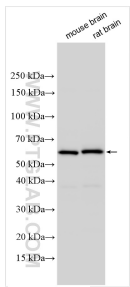
Storage

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

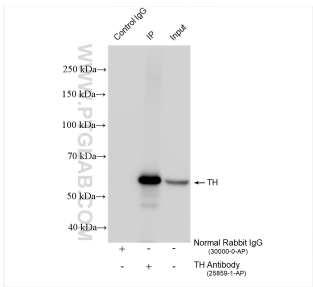
For technical support and original validation data for this product please contact:
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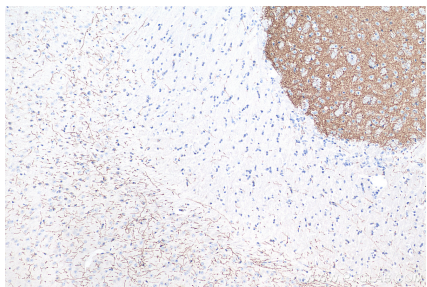
Selected Validation Data



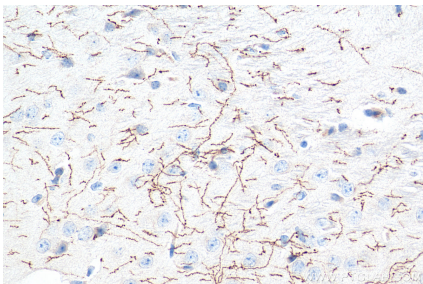
Various lysates were subjected to SDS PAGE followed by western blot with 25859-1-AP (TH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



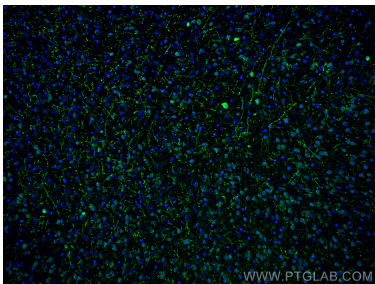
IP result of anti-TH (IP:25859-1-AP, 4ug; Detection:25859-1-AP 1:20000) with mouse brain tissue lysate 2120 ug.



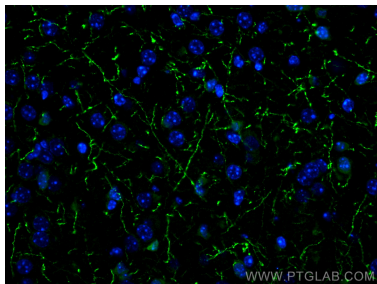
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25859-1-AP (TH antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



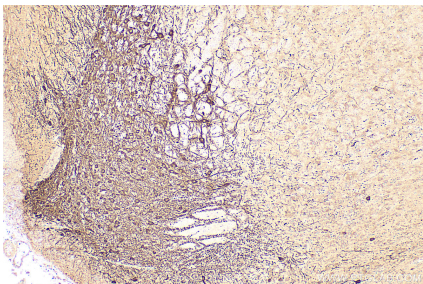
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25859-1-AP (TH antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



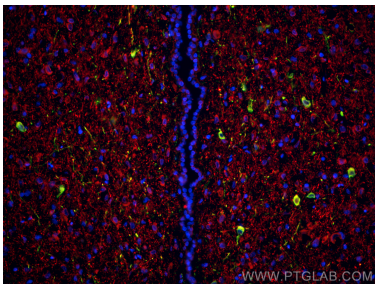
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TH antibody (25859-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



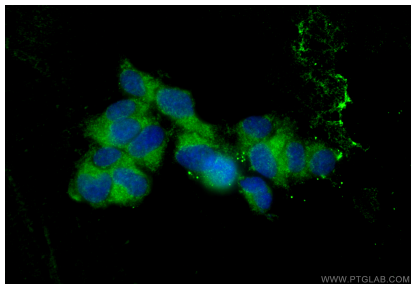
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TH antibody (25859-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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 rat brain tissue using TH antibody (25859-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), MAP2 antibody (67015-1-Ig, Clone: 1C3E6, red).



Immunofluorescent analysis of (4% PFA) fixed PC-12 cells using TH antibody (25859-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).