

Tyrosine Hydroxylase Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Many, Mouse, Rat
Published Species	Dog, Rat, Mouse
Host/Isotype	Sheep / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	SDS-denatured, native rat tyrosine hydroxylase purified from pheochromocytoma
Form	Liquid
Purification	Affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_561880

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunohistochemistry (IHC)	1:1,000	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:1,000	1 Publication

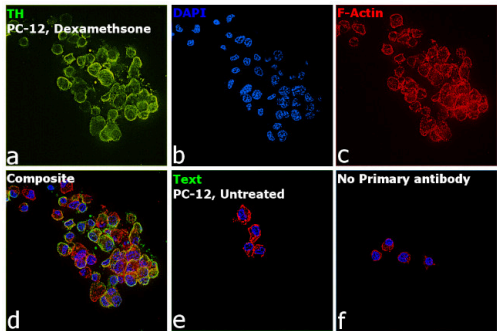
Product Specific Information

This antibody is specific for the ~60 kDa Tyrosine Hydroxylase in Western blots of rat brain extracts.

Product Images For Tyrosine Hydroxylase Polyclonal Antibody

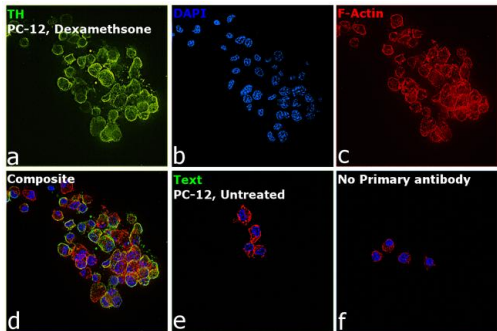
Tyrosine Hydroxylase Antibody (PA1-4679) in ICC/IF

Immunofluorescence analysis of Anti-Tyrosine Hydroxylase Polyclonal Antibody (Product # PA1-4679) was performed using 70% confluent log phase PC-12 cells treated with 5 µg/mL dexamethasone for 6 days. The cells were fixed with 4% Paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with Anti-Tyrosine Hydroxylase Polyclonal Antibody (Product # PA1-4679) at 1:1000 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Donkey anti-Sheep IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488 (Product # A-11015, 1:2000 dilution) for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Cytoplasmic localization. Panel e represents untreated PC-12 cells having low expression of TH. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



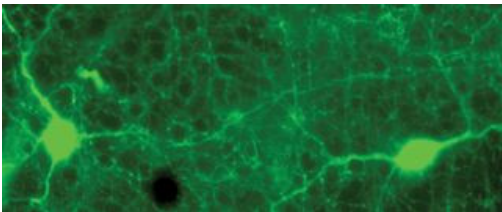
Tyrosine Hydroxylase Antibody (PA1-4679)

Detection of altered expression of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Tyrosine Hydroxylase using Anti-Tyrosine Hydroxylase Polyclonal Antibody (Product # PA1-4679), shows increased expression of Tyrosine Hydroxylase in PC-12 cell line upon Dexamethasone treatment at a concentration of 5 µg/mL for 6 days. {TM}



Tyrosine Hydroxylase Antibody (PA1-4679) in IHC

Immunohistochemistry analysis of Tyrosine Hydroxylase in rabbit retina showing specific labeling of Phospho-NMDAR2B, (Tyr1336) polyclonal antibody (Product # PA1-4679) in green.



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Western Blot (1)

<p>Neurobiology of disease</p> <p>Parkin deficiency accelerates consequences of mitochondrial DNA deletions and Parkinsonism.</p> <p>"PA14679 was used in immunohistochemistry - frozen section and western blot to assess the effect of increased Parkin deletion mutagenesis in the absence of mitochondrial quality control"</p> <p>Authors: Song L,McMackin M,Nguyen A,Cortopassi G</p>	<p>Year 2017</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
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Immunohistochemistry (5)

<p>Molecular neurobiology</p> <p>Methanolic Extract of Boswellia serrata Gum Protects the Nigral Dopaminergic Neurons from Rotenone-Induced Neurotoxicity.</p> <p>"PA1-4679 was used in Immunohistochemistry to suggest that Boswellia protected the dopaminergic neurons from rotenone neurotoxicity via activation of the AMPK pathway which might be associated with attenuation of -synuclein aggregation and neuroinflammation."</p> <p>Authors: Shadfar S,Khanal S,Bohara G,Kim G,Sadigh-Eteghad S,Ghavami S,Choi H,Choi DY</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
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<p>The Journal of neuroscience : the official journal of the Society for Neuroscience</p> <p>The Mesolimbic Dopamine Activity Signatures of Relapse to Alcohol-Seeking.</p> <p>"PA1-4679 was used in Immunohistochemistry to show how different forms of relapse to alcohol-seeking in male rats are assembled from activity across the VTA and the nucleus accumbens."</p> <p>Authors: Liu Y,Jean-Richard-Dit-Bressel P,Yau JO,Willing A,Prasad AA,Power JM,Killcross S,Cliifford CWG,McNally GP</p>	<p>Year 2020</p> <p>Species Rat</p> <p>Dilution 1:1000</p>
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Immunohistochemistry (Frozen) (1)

<p>eLife</p> <p>Loss of the transcription factor Meis1 prevents sympathetic neurons target-field innervation and increases susceptibility to sudden cardiac death.</p> <p>"PA1-4679 was used in immunohistochemistry - frozen section to determine how the loss of a transcription factor, Meis1, prevents innervation of sympathetic neurons and increases the likelihood of sudden cardiac death"</p> <p>Authors: Bouilloux F,Thireau J,Ventéo S,Farah C,Karam S,Dauvilliers Y,Valmier J,Copeland NG,Jenkins NA,Richard S,Marmigère F</p>	<p>Year 2016</p> <p>Dilution 1:2,000</p>
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ICC/IF (1)

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