

# Tyrosine Hydroxylase Monoclonal Antibody (185)

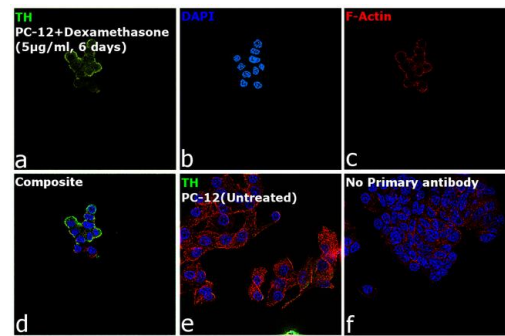
Product Details	
Size	50 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	185
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to the C-terminal portion of mouse Tyrosine Hydroxylase.
Form	Liquid
Concentration	0.24 mg/mL
Storage buffer	tissue culture supernatant
Contains	15mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_795666

Applications	Tested Dilution	Publications
Western Blot (WB)	1:25-1:50	-
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:50	2 Publications

## Product Specific Information

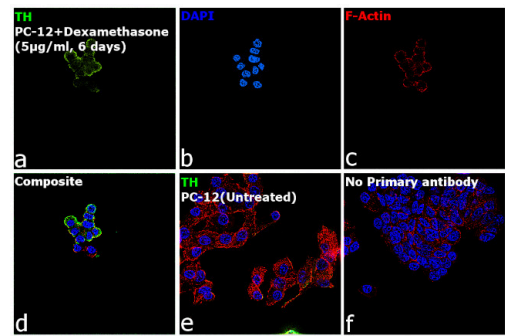
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Tyrosine Hydroxylase Monoclonal Antibody (185)



Tyrosine Hydroxylase Antibody (MA1-24654)

Detection of altered expression of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Tyrosine Hydroxylase using Tyrosine Hydroxylase Monoclonal Antibody (185) (Product # MA1-24654) 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}

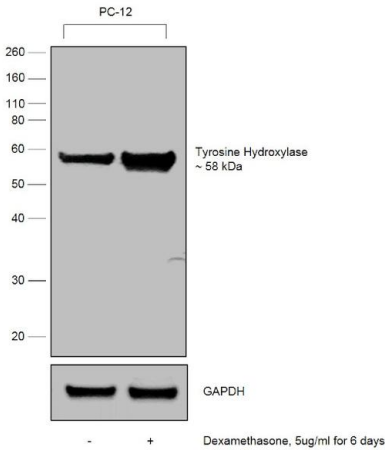


Tyrosine Hydroxylase Antibody (MA1-24654) in ICC/IF

Immunofluorescence analysis of Tyrosine Hydroxylase using Tyrosine Hydroxylase Monoclonal Antibody (185) (Product # MA1-24654) 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 Tyrosine Hydroxylase Monoclonal Antibody (185) (Product # MA1-24654) at 1:50 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A28175), (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 (MA1-24654)

Altered expression of Tyrosine Hydroxylase protein upon cell treatment demonstrated antibody specificity. There was a treatment mediated increase in the expression of Tyrosine Hydroxylase in PC-12 cells upon dexamethasone treatment. {TM}



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## Immunohistochemistry (7)

<p><b>Frontiers in synaptic neuroscience</b></p> <p><b>Somatostatin Neurons in the Mouse Pontine Nucleus Activate GABA<sub>A</sub> Receptor Mediated Synaptic Currents in Locus Coeruleus Neurons.</b></p> <p>"MA1-24654 was used in Immunohistochemistry to include corticotropin-releasing factor (CRF+) expressing neurons in the BRN that control bladder contraction and somatostatin expressing (SST+) neurons whose role in this region has not been discerned."</p> <p>Authors: Garcia DuBar S,Cosio D,Korthas H, Van Batavia JP,Zderic SA,Sahibzada N,Valentino RJ,Vicini S</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Mouse</p> <p><b>Dilution</b> 1:200</p>
<p><b>Molecular and cellular biology</b></p> <p><b>Membrane Trafficking Protein CDP138 Regulates Fat Browning and Insulin Sensitivity through Controlling Catecholamine Release.</b></p> <p>"MA1-24654 was used in Immunohistochemistry to report that mice without CDP138 develop obesity under normal chow diet (NCD) or high-fat diet (HFD) conditions."</p> <p>Authors: Zhou QL,Song Y,Huang CH,Huang JY,Gong Z,Liao Z,Sharma AG,Green L,Deng JZ,Rigor MC,Xie X,Qi S,Ayala JE,Jiang ZY</p>	<p><b>Year</b> 2018</p> <p><b>Species</b> Mouse</p> <p><b>Dilution</b> 1:80</p>

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## Immunocytochemistry (2)

<p><b>Cellular and molecular gastroenterology and hepatology</b></p> <p><b>Lack of Mucosal Cholinergic Innervation Is Associated With Increased Risk of Enterocolitis in Hirschsprung's Disease.</b></p> <p>"MA1-24654 was used in Immunocytochemistry to study the impact of cholinergic signals Hirschsprung's disease - associated enterocolitis."</p> <p>Authors: Keck S,Galati-Fournier V,Kym U,Moesch M,Usemann J,Müller I,Subotic U,Tharakan SJ,Krebs T,Stathopoulos E,Schmittenebecher P,Cholewa D,Romero P,Reingruber B,Bruder E,Group NS,Holland-Cunz S</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Human</p>
<p><b>ASN neuro</b></p> <p><b>Restoration of Noradrenergic Function in Parkinson's Disease Model Mice.</b></p> <p>"Published figure using Tyrosine Hydroxylase monoclonal antibody (Product # MA1-24654) in Immunocytochemistry"</p> <p>Authors: Cui K,Yang F,Tufan T,Raza MU,Zhan Y,Fan Y,Zeng F,Brown RW,Price JB,Jones TC,Miller GW,Zhu MY</p>	<p><b>Year</b> 2021</p>

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