

# Dopamine Transporter Monoclonal Antibody (mAb16)

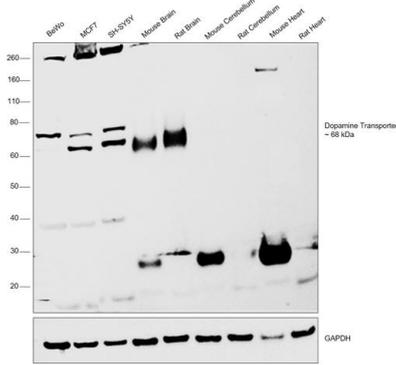
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	mAb16
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to the N-terminus of rat DAT1.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	tris glycine with 0.15M NaCl
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2717269

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunocytochemistry (ICC/IF)	1:250	-
ELISA (ELISA)	Assay-Dependent	-
Immunoprecipitation (IP)	Assay-Dependent	-

## Product Images For Dopamine Transporter Monoclonal Antibody (mAb16)

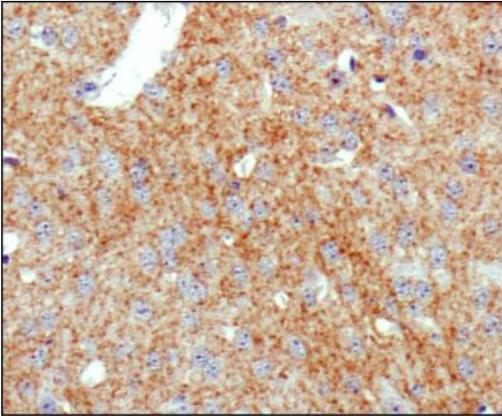
### Dopamine Transporter Antibody (MA5-24796) in WB

Western blot was performed using anti-Dopamine Transporter Monoclonal Antibody (mAb16) (Product # MA5-24796). A 68 kDa band corresponding to Dopamine Transporter (DAT) was observed across cell lines and brain tissues except Mouse, Rat Cerebellum and Mouse, Rat Heart which are reported to be low to negative expression models for Dopamine Transporter. Another band at 75 kDa was found only in the cell lines which could be another isoform of DAT. Uncharacterized bands at 260, 35, 15 kDa were observed in the samples tested. A band at 25 kDa was observed in mouse tissues which corresponds to circulating IgG in tissues. Membrane enriched extracts (30 µg) of BeWo (Lane 1), MCF7 (Lane 2), SH-SY5Y (Lane 3), tissue extracts of Mouse Brain (Lane 4), Rat Brain (Lane 5), Mouse Cerebellum (Lane 6), Rat Cerebellum (Lane 7), Mouse Heart (Lane 8) and Rat Heart (Lane 9) were electrophoresed using Novex® NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



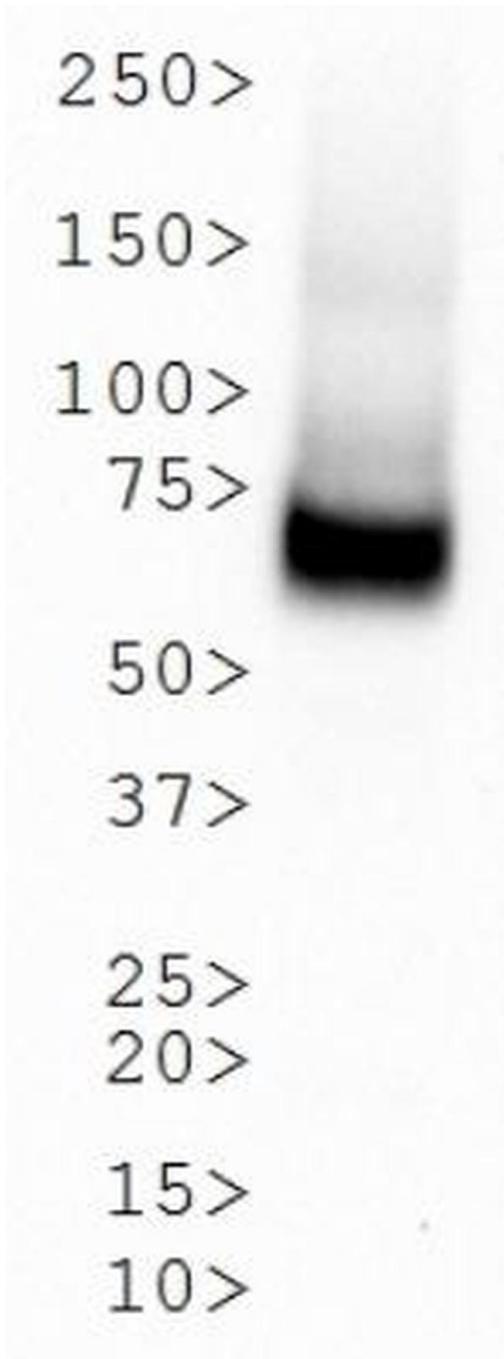
### Dopamine Transporter Antibody (MA5-24796) in IHC (P)

Immunohistochemical analysis of Dopamine Transporter in mouse brain. Samples were incubated in Dopamine Transporter monoclonal antibody (Product # MA5-24796) followed by DAB with hematoxylin counterstain.



### Dopamine Transporter Antibody (MA5-24796) in WB

Western blot analysis of Dopamine Transporter in rat striatal membrane tissue lysate. Sample was incubated in Dopamine Transporter monoclonal antibody (Product # MA5-24796).



### Western Blot (1)

Addiction biology

#### Recovery of dopaminergic system after cocaine exposure and impact of a long-acting cocaine hydrolase.

"MA5-24796 was used in Western Blotting to demonstrate that a highly efficient Fc-fused cocaine hydrolase, Coch5-Fc (M6), effectively blocked cocaine-induced hyperactivity and DAT trafficking with repeated cocaine exposures by maintaining a plasma Coch5-Fc(M6) concentration =  $58.7 \pm 2.9$  nM in rats."

Authors: Deng J,Zhang T,Zheng X,Shang L,Zhan CG,Zheng F

Year  
2022

Species  
Rat

### Immunohistochemistry (1)

Neurobiology of disease

#### Long-term RNAi knockdown of -synuclein in the adult rat substantia nigra without neurodegeneration.

"MA5-24796 was used in Immunohistochemistry-immunofluorescence to investigate the impact of long-term -synuclein knockdown in the adult rat central nervous system and its role in the pathogenesis of Parkinson's disease."

Authors: Zharikov A,Bai Q,De Miranda BR,Van Laar A,Greenamyre JT,Burton EA

Year  
2019

Species  
Rat

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