

Dopamine Transporter/DAT Rabbit mAb

Catalog NO.: A25875 **Recombinant** **2 Publications**

Basic Information

Observed MW

70-85 kDa

Calculated MW

68 kDa

Category

Monoclonal Antibodies

Applications

WB, IF-F, IF-P, IHC-P, mIHC, ELISA

Cross-Reactivity

Mouse, Rat

Conjugation

Unconjugated

Clone number

ARC66721

Background

This gene encodes a dopamine transporter which is a member of the sodium- and chloride-dependent neurotransmitter transporter family. The 3' UTR of this gene contains a 40 bp tandem repeat, referred to as a variable number tandem repeat or VNTR, which can be present in 3 to 11 copies. Variation in the number of repeats is associated with idiopathic epilepsy, attention-deficit hyperactivity disorder, dependence on alcohol and cocaine, susceptibility to Parkinson disease and protection against nicotine dependence.

Recommended Dilutions

WB	1:1000 - 1:2000
IF-F	1:200-1:400
IF-P	1:200-1:400
IHC-P	1:2000 - 1:20000
mIHC	1:5000 - 1:20000

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements.

Contact

Immunogen Information

Gene ID

6531

Swiss Prot

Q01959

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

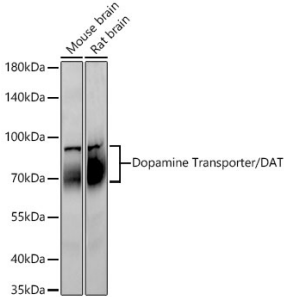
DAT; DAT1; PKDYS; PKDYS1

Product Information

☒	order@abclonal.com
☒	service@abclonal.com
☒	www.abclonal.com

Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C. Avoid freeze / thaw cycles.		
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.		

Validation Data



Western blot analysis of various lysates using Dopamine Transporter/DAT Rabbit mAb (A25875) at 1:1000 dilution incubated overnight at 4°C.

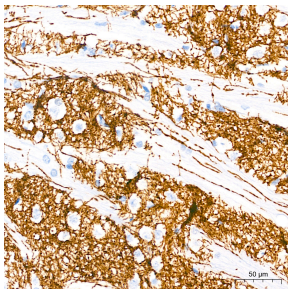
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

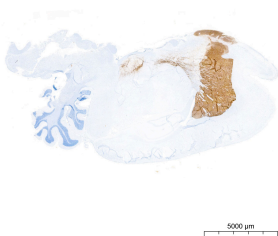
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

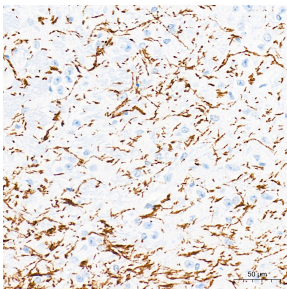
Exposure time: 45s.



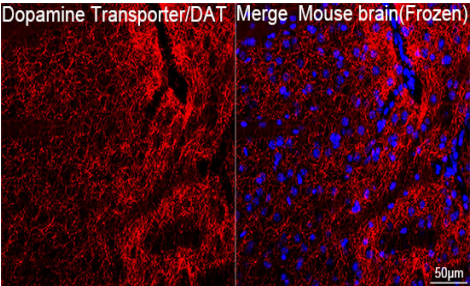
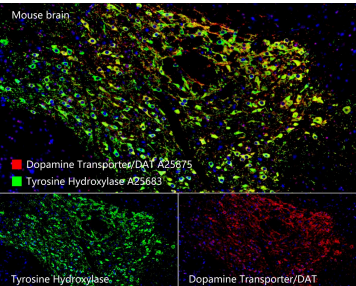
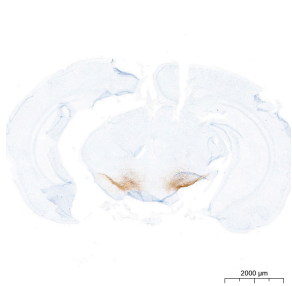
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875) at a dilution of 1:2000 (1x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875) at a dilution of 1:10000 (2x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

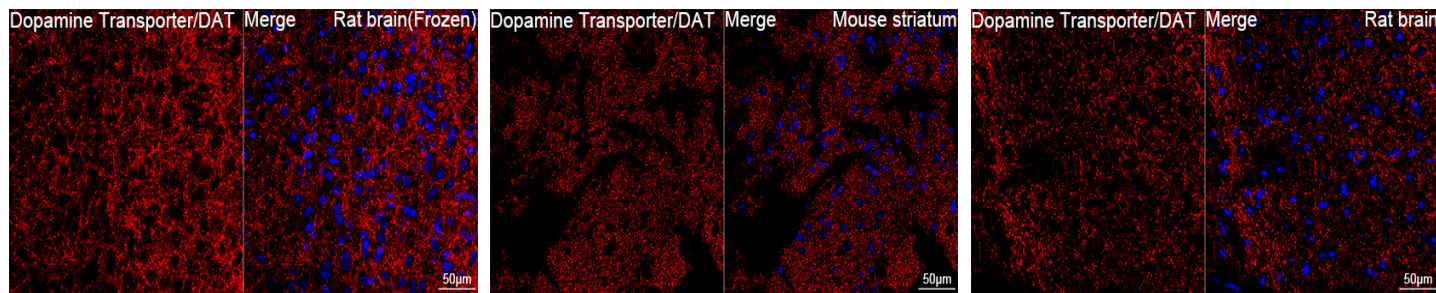
Antibody | Protein | ELISA Kit | Enzyme | Assay | Service

The multiplex IHC analysis on paraffin-embedded Mouse brain tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Tyrosine Hydroxylase Rabbit mAb (A25683, 1:5000) with TSA-TYR-520 (Green), and Dopamine Transporter/DAT Rabbit mAb (A25875, 1:10000) with TSA-TYR-570 (Red). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.

Confocal imaging of frozen sections of Mouse brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

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Validation Data



Confocal imaging of frozen sections of Rat brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Mouse striatum tissue using Dopamine Transporter/DAT Rabbit mAb (A25875, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Rat brain tissue using Dopamine Transporter/DAT Rabbit mAb (A25875, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

