

## Datasheet for 600-401-C75

## Dopamine Transporter Antibody

### Overview

<b>Description:</b>	Anti-Dopamine Transporter (RABBIT) Antibody - 600-401-C75
<b>Item No.:</b>	600-401-C75
<b>Size:</b>	100 µL
<b>Applications:</b>	IHC, WB
<b>Reactivity:</b>	Human, Mouse, Non-Human Primates
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	Dopamine Transporter Antibody detects dopamine transporter (DAT) which is responsible for the reaccumulation of dopamine after it has been released. DAT antibodies and antibodies for other markers of catecholamine biosynthesis are widely used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse. Levels of DAT protein expression are altered by chronic drug administration. Anti-Dopamine Transporter Antibody is ideal for investigators involved in Neuroscience.
<b>Synonyms:</b>	Sodium-dependent dopamine transporter, DA transporter, DAT, Solute carrier family 6 member 3
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Gene Name:</b>	SLC6A3
<b>Reactivity:</b>	Human, Mouse, Non-Human Primates
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	Anti-Dopamine Transporter Antibody was produced in rabbit by repeated immunizations with the synthetic peptide corresponding to the intracellular C-terminal region conjugated to KLH.

**Purity/Specificity:** Anti-Dopamine Transporter antibody is directed against human dopamine transporter. Anti-Dopamine Transporter antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Anti-Dopamine Transporter antibody recognizes Dopamine Transporter from human, mouse and NHP sources. Cross reactivity with Dopamine Transporter from other species has not been determined.

**Relevant Links:**

- [NCBI - NP\\_001035.1](#)
- [UniProtKB - Q01959](#)
- [GeneID - 6531](#)

## Application Details

**Tested Applications:** IHC, WB

**Application Note:** Anti-Dopamine Transporter Antibody is tested for use in ELISA, Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 88 kDa corresponding to DAT proteins in the appropriate cell lysate or extract.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000

**IHC:** 1:1000

**WB:** 1:1000

## Formulation

**Physical State:** Liquid

**Concentration:** Each unit contains titrated antibody for 10 mini-western blots at suggested dilution Sufficient to run approximately 10 miniblots

**Buffer:** 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5

**Stabilizer:** 0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

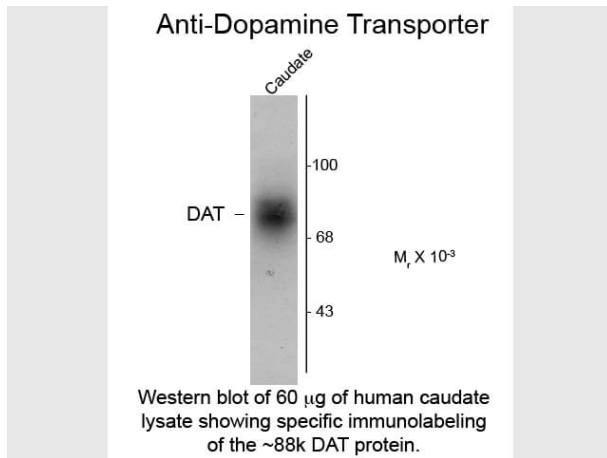
## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western Blot of Rabbit Anti-Dopamine Transporter C-Terminus Human Antibody. Lane 1: human caudate lysate. Lane 2: none. Load: 10  $\mu$ g per lane. Primary antibody: Dopamine Transporter antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~88kDa/~88kDa for DAT protein. Other band(s): none.

## References

- Russo EE et al. Evaluation and Validation of Commercially Available Dopamine Transporter Antibodies. *eNeuro*. (2023)

## Disclaimer

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