# Datasheet: AHP932

## BATCH NUMBER 171296

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| **Description:** | RABBIT ANTI HUMAN DOPAMINE TRANSPORTER (C-TERMINAL) |
| **Specificity:** | DOPAMINE TRANSPORTER (C-TERMINAL) |
| **Format:** | Purified |
| **Product Type:** | Polyclonal Antibody |
| **Isotype:** | Polyclonal IgG |
| **Quantity:** | 0.1 ml |

## Product Details

**Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|---|---|---|---|---|
| Flow Cytometry | | | ▪ | |
| Immunohistology - Frozen | ▪ | | | 1/1000 |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 1/1000 |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Monkey, Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

Purified IgG - liquid

**Antiserum Preparation**

Antisera to human dopamine transporter (CT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

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| **Buffer Solution** | 10mM HEPES pH7.5<br>150mM NaCl |
| **Preservative Stabilisers** | 0.09% Sodium Azide<br>0.01% Bovine Serum Albumin<br>50% Glycerol |
| **Immunogen** | Keyhole limpet haemocyanin conjugated synthetic peptide corresponding to the C-terminus region (CT) of human dopamine transporter. |
| **External Database Links** | **UniProt:**<br>Q01959 Related reagents<br><br>**Entrez Gene:**<br>6531 SLC6A3 Related reagents |
| **Synonyms** | DAT1 |
| **RRID** | AB_2286179 |
| **Specificity** | **Rabbit anti Human dopamine transporter antibody** recognizes an epitope within the C-terminal region of dopamine transporter (DAT), also known as solute carrier family 6.<br><br>DAT is principally expressed in the presynaptic membrane of dopaminergic nerve terminals, where it mediates the rapid removal of dopamine from the synaptic cleft after neuronal stimulation. As such, DAT plays an important role in regulating the availability of dopamine in the synaptic cleft and thus in modulating the physiological functions of dopamine.<br><br>The reuptake of dopamine by DAT is inhibited by psychostimulants such as cocaine and amphetamine. |
| **Western Blotting** | AHP932 detects a band of approximately 88kDa in human caudate cell lysates. |
| **References** | 1. Mozley, L.H. *et al.* (2001) Striatal dopamine transporters and cognitive functioning in healthy men and women. Am J Psychiatry. 158 (9): 1492-9. |
| **Storage** | This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.<br><br>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. |
| **Guarantee** | 12 months from date of despatch |
| **Health And Safety** | Material Safety Datasheet documentation #10088 available at: |

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| **Information** | https://www.bio-rad-antibodies.com/SDS/AHP932 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

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|---|---|
| Goat Anti Rabbit IgG (H/L) (STAR124...) | HRP |
| Sheep Anti Rabbit IgG (STAR35...) | RPE |
| Goat Anti Rabbit IgG (Fc) (STAR121...) | Biotin, FITC, HRP |

### Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

**Product inquiries: www.bio-rad-antibodies.com/technical-support**

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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