Datasheet: 0100-0075

Description:	RAT ANTI HUMAN DOPAMINE TRANSPORTER
Specificity:	DOPAMINE TRANSPORTER
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	DAT-Nt(4F8)
Isotype:	IgG2a
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 - 1/10 000
Immunohistology - Paraffin			▪	
ELISA			▪	
Western Blotting	▪			
Immunofluorescence	▪			

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Monkey, Mouse, Rat
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

Tissue Culture Supernatant - liquid

Preservative Stabilisers

None present

Immunogen

N-terminus of human dopamine transporter fused to Glutathione S-transferase.

External Database Links	**UniProt:** Q01959 Related reagents **Entrez Gene:** 6531 SLC6A3 Related reagents
Synonyms	DAT1
RRID	AB_2190418
Specificity	**Rat anti Human dopamine transporter antibody, clone DAT-Nt** recognizes the human sodium dependent dopamine transporter encoded by the SLC6A3 gene. It recognizes an epitope rear the N-terminus. Rat anti Human dopamine transporter antibody, clone DAT-Nt does not cross react with serotonin and norepinephrine transporters.
Histology Positive Control Tissue	Brain (caudate, putamen and nucleus accumbens).
Western Blotting	0100-0075 recognises a diffuse band at approximatley 70-85 kDa on extracts from human caudate, putamen and nucleus accumbens.
References	1. Miller, G.W. *et al.* (1997) Immunochemical analysis of dopamine transporter protein in Parkinson's disease. Ann Neurol. 41 (4): 530-9. 2. Kwon, O.B. *et al.* (2008) Neuregulin-1 regulates LTP at CA1 hippocampal synapses through activation of dopamine D4 receptors. Proc Natl Acad Sci U S A. 105 (40): 15587-92.
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10218 available at: 10218: https://www.bio-rad-antibodies.com/uploads/MSDS/10218.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®650, DyLight®800

Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin

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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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