Datasheet: AHP1546

Description:	RABBIT ANTI HUMAN DOPAMINE TRANSPORTER (EXTRACELLULAR LOOP 2)
Specificity:	DOPAMINE TRANSPORTER (EXTRACELLULAR LOOP 2)
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
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to human dopamine transporter (Extracellular loop 2) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution

10mM HEPES pH7.5, 150mM NaCl

Preservative Stabilisers

0.09% Sodium Azide
0.01% Bovine Serum Albumin
50% Glycerol

Immunogen

Keyhole limpet haemocyanin conjugated synthetic peptide from the extracellular loop 2 region of human dopamine transporter.

External Database Links	**UniProt:** Q01959 Related reagents **Entrez Gene:** 6531 SLC6A3 Related reagents
Synonyms	DAT1
Specificity	**Rabbit anti Human Dopamine Transporter antibody** recognizes extracellular loop 2 of the human dopamine transporter (DAT). DAT is a Na^+/Cl^- dependent transport protein that is responsible for clearing synaptic dopamine by transporting it into neurons. The protein is implicated in a number of dopamine-related disorders such as attention deficit hyperactivity disorder, Parkinson's disease, depression and drug abuse. DAT consists of 12 transmembrane domains connected by intra- and extracellular loops. The largest, extracellular loop 2, occurs between transmembrane domains 3 and 4 and contains N-linked carbohydrates and a putative disulfide bond. It is the site on the DAT protein that is most sensitive to proteolysis.
References	1. Gaffaney, J. D. and Vaughan, R. A. (2004) Uptake inhibitors but not substrates induce protease resistance in extracellular loop two of the dopamine transporter. Mol. Pharmacol. 65:692-701.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10088 available at: 10088: https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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