

Product datasheet

Anti-Dopamine Transporter antibody [hDAT-NT] ab5990

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Overview

Product name	Anti-Dopamine Transporter antibody [hDAT-NT]
Description	Rat monoclonal [hDAT-NT] to Dopamine Transporter
Host species	Rat
Specificity	This antibody recognizes the N-terminus of the dopamine transporter (DAT-NT) in mice and humans.
Tested applications	Suitable for: IHC-P, ICC, IHC-Fr
Species reactivity	Reacts with: Mouse, Human
Immunogen	Fusion protein corresponding to Dopamine Transporter. Fusion protein containing the dopamine transporter N-terminal amino acids 1-66.
Positive control	IHC-P: Mouse brain tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: PBS Sterile Filtered
Purity	Protein A purified
Clonality	Monoclonal
Clone number	hDAT-NT
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab5990** in the following tested applications.

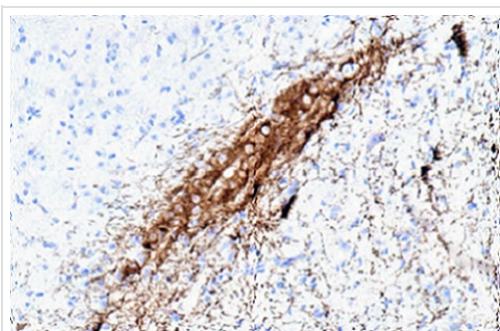
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
ICC		1/100 - 1/1000.
IHC-Fr		1/500.

Target

Function	Amine transporter. Terminates the action of dopamine by its high affinity sodium-dependent reuptake into presynaptic terminals.
Involvement in disease	Defects in SLC6A3 are the cause of dystonia-parkinsonism infantile (DYTPRI) [MIM:613135]. It is a neurodegenerative disorder characterized by infantile onset of parkinsonism and dystonia. Other neurologic features include global developmental delay, bradikinesia and pyramidal tract signs.
Sequence similarities	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A3 subfamily.
Cellular localization	Membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dopamine Transporter antibody [hDAT-NT] (ab5990)

Carl Hobbs (Kings College, London, United Kingdom)

ab5990 staining of dopamine transporter in mouse brain (substantia nigra) tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Heat-mediated antigen retrieval was carried out using citric acid. Samples were incubated with primary antibody (1/1000) for two hours at room temperature. A Biotin-conjugated goat anti-rat IgG polyclonal was used as the secondary antibody.

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