Product datasheet

Anti-Dopamine Transporter antibody [hDAT-NT] ab5990

Overview

Product name  Anti-Dopamine Transporter antibody [hDAT-NT]
Description  Rat monoclonal [hDAT-NT] to Dopamine Transporter
Host species  Rat
Tested applications  Suitable for: IHC-P
Species reactivity  Reacts with: Mouse, Human
Predicted to work with: Rat
Immunogen  Fusion protein corresponding to Dopamine Transporter aa 1-66 (N terminal).
Positive control  IHC-P: Mouse brain tissue.

Properties

Form  Liquid
Storage buffer  pH: 7.4
Constituents: PBS, 0.81% Sodium chloride, 0.16% Sodium phosphate, 0.02% Potassium chloride, 0.04% Potassium phosphate
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.
<table>
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<th>Application</th>
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<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.</td>
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### 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

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.

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

Carl Hobbs (Kings College, London, United Kingdom)

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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