Product datasheet

Anti-Dopamine beta Hydroxylase antibody ab19353

Overview

Product name: Anti-Dopamine beta Hydroxylase antibody
Description: Sheep polyclonal to Dopamine beta Hydroxylase
Host species: Sheep
Tested applications: Suitable for: ICC, WB, ICC/IF, IHC-P, IHC-Fr
Species reactivity: Reacts with: Mouse, Rat, Cow, Human
Immunogen: Synthetic peptide corresponding to Rat Dopamine beta Hydroxylase aa 43-62.
Sequence: SEPPESPFYPYHIPLDPEGTL
General notes: Detects human, bovine, rat and mouse DBH. It is not effective for immunohistochemistry in human brain

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: 0.05% Sodium azide
Purity: Whole antiserum
Clonality: Polyclonal

Applications

Our Abpromise guarantee covers the use of ab19353 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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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC</td>
<td>1/2500.</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/5000.</td>
<td>Detects a band of approximately 72 kDa.</td>
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Function
Conversion of dopamine to noradrenaline.

Pathway
Catecholamine biosynthesis; (R)-noradrenaline biosynthesis; (R)-noradrenaline from dopamine: step 1/1.

Involvement in disease
Defects in DBH are the cause of dopamine beta-hydroxylase deficiency (DBH deficiency) [MIM:223360]; also known as norepinephrine deficiency or noradrenaline deficiency. This disorder is characterized by profound deficits in autonomic and cardiovascular function, but apparently only subtle signs, if any, of central nervous system dysfunction.

Sequence similarities
Belongs to the copper type II ascorbate-dependent monoxygenase family. Contains 1 DOMON domain.

Cellular localization
Cytoplasmic vesicle > secretory vesicle lumen. Cytoplasmic vesicle > secretory vesicle > chromaffin granule lumen and Cytoplasmic vesicle > secretory vesicle > chromaffin granule membrane.

Images
Immunofluorescent staining of DBH in rat neuron cells using ab19353.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dopamine beta Hydroxylase antibody (ab19353)

Immunofluorescent stain of DBH in rat brain tissue using ab19353.

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

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