Dopamine beta Hydroxylase Polyclonal Antibody

Catalog Number PA3-925

Species Reactivity
Species reactivity Bovine, Human, Mouse, Rat
Published species Human, Mouse

Tested Applications

<table>
<thead>
<tr>
<th>Tested Application</th>
<th>Dilution *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistochemistry (Frozen) (IHC (F))</td>
<td>Assay-dependent</td>
</tr>
<tr>
<td>Western Blot (WB)</td>
<td>1:5,000</td>
</tr>
<tr>
<td>Immunocytochemistry (ICC/IF)</td>
<td>1:2,500</td>
</tr>
</tbody>
</table>

Published Applications

<table>
<thead>
<tr>
<th>Published Application</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistochemistry (IHC)</td>
<td>See 2 publications below</td>
</tr>
<tr>
<td>Immunocytochemistry (ICC/IF)</td>
<td>See 1 publications below</td>
</tr>
</tbody>
</table>

Conjugate Unconjugated

Form Liquid

Concentration Conc. Not Determined

Storage buffer whole serum

Contains 0.05% sodium azide

Storage Conditions -20° C, Avoid Freeze/Thaw Cycles

Product specific information

PA3-925 detects human, bovine, rat and mouse DBH. This antibody is not effective for immunohistochemistry in human brain. PA3-925 has been successfully used in Western blot, immunohistochemistry and immunofluorescence procedures. By Western blot, this antibody detects an ~72 kDa protein representing DBH from rat neurons. In immunohistochemistry and immunofluorescence procedures, it specifically stains chromaffin cells of the adrenal medulla, and DBH containing cells of the sympathetic nervous system. The PA3-925 immunogen is a synthetic peptide corresponding to residues S(43) E P E S P F P Y H P L D P E G T L(62) of rat DBH. This sequence is highly conserved (>85% homology) in human, bovine and mouse.

Product Images For Dopamine beta Hydroxylase Polyclonal Antibody

**Fig. 2**  
Dopamine beta Hydroxylase Antibody (PA3-925) in ICC/IF  
Immunofluorescent staining of DBH in rat neuron cells using Product # PA3-925.

**Fig. 1**  
Dopamine beta Hydroxylase Antibody (PA3-925) in IHC  
Immunofluorescent stain of DBH in rat neuron tissue using Product # PA3-925.
**PubMed References For Dopamine beta Hydroxylase Polyclonal Antibody**

### 2 Immunohistochemistry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Human / 1:1000</strong></td>
<td>PA3-925 was used in Immunohistochemistry-immunofluorescence to show that DOPEGAL, a monoamine oxidase A (MAO-A) metabolite of norepinephrine (NE), reacts directly with the primary amine on the Lys353 residue of tau to stimulate its aggregation and facilitate its propagation. Nature structural &amp; molecular biology (Apr 2022; 29: 292) &quot;Tau modification by the norepinephrine metabolite DOPEGAL stimulates its pathology and propagation.&quot; Author(s): Kang SS, Meng L, Zhang X, Wu Z, Mancieri A, Xie B, Liu X, Weinshenker D, Peng J, Zhang Z, Ye K PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41594-022-00745-3">http://dx.doi.org/10.1038/s41594-022-00745-3</a></td>
</tr>
</tbody>
</table>

### 1 Immunocytochemistry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mouse / 1:2,500</strong></td>
<td>PA3-925 was used in immunocytochemistry to investigate the kinetics of peptide secretion from chromaffin cells. The Journal of neuroscience : the official journal of the Society for Neuroscience (Jun 2006; 26: 6637) &quot;Near simultaneous release of classical and peptide cotransmitters from chromaffin cells.&quot; Author(s): Whim MD PubMed Article URL:<a href="http://dx.doi.org/10.1523/JNEUROSCI.5100-05.2006">http://dx.doi.org/10.1523/JNEUROSCI.5100-05.2006</a></td>
</tr>
</tbody>
</table>