Anti-Tyrosine Hydroxylase Antibody

Catalog #: 2025-THRAB  Size: 100 µl

Cite this Antibody: PhosphoSolutions Cat# 2025-THRAB, RRID:AB_2492276

<table>
<thead>
<tr>
<th>Host</th>
<th>Applications</th>
<th>Species Tested</th>
<th>Species Reactivity*</th>
<th>Molecular Reference</th>
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<tr>
<td>Rabbit</td>
<td>WB 1:1000</td>
<td>All Mammalian</td>
<td>~60 kDa</td>
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<td>IF 1:1000 (frozen sections)</td>
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<td>IHC 1:1000 (frozen sections)</td>
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Product Description: Affinity purified rabbit polyclonal antibody.

Biological Significance: Tyrosine hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines dopamine and norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson’s disease and drug abuse (Kish et al., 2001, Zhu et al., 2000, Zhu et al., 1999). TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling (Witkovsky et al., 2000; Salvatore et al., 2001, Dunkley et al., 2004).

Antigen: SDS-denatured rat tyrosine hydroxylase, purified from pheochromocytoma.

Antibody Specificity: Specific for endogenous levels of the ~60 kDa tyrosine hydroxylase protein.

Purification Method: Prepared from pooled rabbit serum by affinity purification using a column to which the fusion protein immunogen was coupled.

Quality Control Tests: Western blots performed on each lot.

Packaging: 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

Storage and Stability: Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

Western blot of 10 µg of rat striatal lysate showing specific immunolabeling of the ~60 kDa tyrosine hydroxylase protein.

Immunostaining of E17 rat midbrain mixed neuronal cultures showing TH positive neurons in green and MAP2 (cat. # 1100-MAP2) in red. Image courtesy of Aurélie de Rus Jacquet, laboratory of Dr. Jean-Christophe Rochet, Purdue University.
**Product Specific References:**


**General References:**