

## Datasheet: AHP1879

<b>Description:</b>	SHEEP ANTI RAT TYROSINE HYDROXYLASE
<b>Specificity:</b>	TYROSINE HYDROXYLASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/1000
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1000
Immunofluorescence	▪			1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	<p>Reacts with: Rabbit</p> <p>Based on sequence similarity, is expected to react with: Mammals</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid

**Antiserum Preparation** Antisera to tyrosine hydroxylase were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by immunoaffinity chromatography.

<b>Buffer Solution</b>	10mM HEPES pH7.5, 150mM NaCl
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.01% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Rat Tyrosine hydroxylase purified from pheochromocytoma.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04177</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">25085</a> Th <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2201649
<b>Specificity</b>	<p><b>Sheep anti Rat tyrosine hydroxylase antibody</b> recognizes rat tyrosine 3-monooxygenase, also known as tyrosine hydroxylase or tyrosine 3-hydroxylase. Tyrosine hydroxylase is a 497 amino acid ~56 kDa enzyme involved in the production of dopamine from L-tyrosine. Tyrosine hydroxylase also catalyzes the rate-limiting step in the biosynthetic pathway of the catecholamines norepinephrine, and epinephrine. The enzyme exists as a tetramer, with each subunit composed of an N-terminal regulatory domain and a C-terminal catalytic domain. Tyrosine hydroxylase is regularly used as a marker for dopaminergic neurons.</p>
<b>Western Blotting</b>	AHP1879 detects a band of approximately 60kDa in rat caudate cell lysates.
<b>References</b>	<ol style="list-style-type: none"> <li>Xu, Z.Q. <i>et al.</i> (1998) Immunohistochemical studies on phosphorylation of tyrosine hydroxylase in central catecholamine neurons using site- and phosphorylation state-specific antibodies. <a href="#">Neuroscience. 82 (3): 727-38.</a></li> <li>Olivas, A. <i>et al.</i> (2016) Myocardial Infarction Causes Transient Cholinergic Transdifferentiation of Cardiac Sympathetic Nerves via gp130. <a href="#">J Neurosci. 36 (2): 479-88.</a></li> <li>Hanscom, M. <i>et al.</i> (2024) Innervation of Adipocytes is Limited in Mouse Perivascular Adipose Tissue. <a href="#">Am J Physiol Heart Circ Physiol. May 24 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1879">https://www.bio-rad-antibodies.com/SDS/AHP1879</a> 10088

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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