

## Datasheet: AHP931

<b>Description:</b>	RABBIT ANTI 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 antibody 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 antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Rat

### Species Cross Reactivity

Reacts with: Grasshopper (*Gastrimargus musicus*), Rat, Mouse

Based on sequence similarity, is expected to react with: Mammals

**N.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.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antisera to tyrosine hydroxylase were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

<b>Buffer Solution</b>	10mM HEPES pH7.5
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Tyrosine hydroxylase purified from pheochromocytoma.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P04177</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">25085</a> Th <a href="#">Related reagents</a>
<b>RRID</b>	AB_2201650
<b>Specificity</b>	<b>Rabbit anti Rat tyrosine hydroxylase antibody</b> recognizes tyrosine hydroxylase (TH). Tyrosine hydroxylase catalyses the rate-limiting step in the biosynthetic pathway of the catecholamines dopamine (DA), 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, which is particularly relevant for research into Parkinson's disease ( <a href="#">Haavik et al. 1998</a> ).
<b>Western Blotting</b>	AHP931 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="#">Neurosci. 82: 727-8.</a></li> <li>Kim, S.M. <i>et al.</i> (2009) Dense-core vesicle proteins IA-2 and IA-2{beta} affect renin synthesis and secretion through the {beta}-adrenergic pathway. <a href="#">Am J Physiol Renal Physiol. 296: F382-9.</a></li> <li>Fan, W. <i>et al.</i> (2010) Structural and cellular features in metaphyseal and diaphyseal periosteum of osteoporotic rats. <a href="#">J Mol Histol. 41: 51-60.</a></li> <li>Wu, X. <i>et al.</i> (2012) Desipramine pretreatment improves sympathetic remodeling and ventricular fibrillation threshold after myocardial ischemia. <a href="#">J Biomed Biotechnol. 2012: 732909.</a></li> <li>Nurul Wahida, A. &amp; Cooper, P.D. (2014) Feeding and the salivary gland response in free-ranging yellow-winged grasshoppers (<i>Gastrimargus musicus</i>) <a href="#">Austral J Zool. 62: 393-400.</a></li> </ol>
<b>Storage</b>	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.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP931">https://www.bio-rad-antibodies.com/SDS/AHP931</a> 10088
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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)  
'M383374:210513'

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