

Datasheet: AHP1879

BATCH NUMBER 170105

Description:	SHEEP ANTI RAT TYROSINE HYDROXYLASE
Specificity:	TYROSINE HYDROXYLASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species

Rat

Species Cross Reactivity

Reacts with: Rabbit

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 sheep with highly purified antigen. Purified IgG prepared by immunoaffinity chromatography.

Buffer Solution	10mM HEPES pH7.5, 150mM NaCl
Preservative	0.05% Sodium Azide (NaN ₃)
Stabilisers	0.01% Bovine Serum Albumin 50% Glycerol
Immunogen	Rat Tyrosine hydroxylase purified from pheochromocytoma.
External Database Links	<p>UniProt: P04177 Related reagents</p> <p>Entrez Gene: 25085 Th Related reagents</p>
RRID	AB_2201649
Specificity	<p>Sheep anti Rat tyrosine hydroxylase antibody recognizes rat tyrosine 3-monoxygenase, 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>
Western Blotting	AHP1879 detects a band of approximately 60kDa in rat caudate cell lysates.
References	<ol style="list-style-type: none"> 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. Neuroscience. 82 (3): 727-38. Olivas, A. <i>et al.</i> (2016) Myocardial Infarction Causes Transient Cholinergic Transdifferentiation of Cardiac Sympathetic Nerves via gp130. J Neurosci. 36 (2): 479-88.
Storage	<p>Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10088 available at: https://www.bio-rad-antibodies.com/SDS/AHP1879 10088
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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