

Datasheet: AHP1879

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	Reacts with: Rabbit	
Reactivity	Based on sequence similarity, is expected to react with:Mammals	
•	N.B. Antibody reactivity and working conditions may vary between s	species.
Product Form	Purified IgG - liquid	
Antiserum Preparation	Antisera to tyrosine hydroxylase were raised by repeated immunisa purified antigen. Purified IgG prepared by immunoaffinity chromatog	
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

UniProt:

P04177 Related reagents

Entrez Gene:

25085 Th Related reagents

Specificity

Sheep anti Rat tyrosine hydroxylase antibody 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.

Western Blotting

AHP1879 detects a band of approximately 60kDa in rat caudate cell lysates.

References

- 1. Xu, Z.Q. et al. (1998) Immunohistochemical studies on phosphorylation of tyrosine hydroxylase in central catecholamine neurons using site- and phosphorylation state-specific antibodies. Neuroscience. 82 (3): 727-38.
- 2. Olivas, A. et al. (2016) Myocardial Infarction Causes Transient Cholinergic Transdifferentiation of Cardiac Sympathetic Nerves via gp130. J Neurosci. 36 (2): 479-88.

Storage

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10088 available at: 10088: https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Donkey Anti Sheep IgG (STAR88...)

DyLight®488, DyLight®549, DyLight®649,

FITC, HRP

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