

Datasheet: AHP931

Description:	RABBIT ANTI 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 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 (<i>Gastrimargus musicus</i>), Rat, Mouse Based on sequence similarity, is expected to react with: Mammals N.B. Antibody reactivity and working conditions may vary between species.
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.
Buffer Solution	10mM HEPES pH7.5
Preservative Stabilisers	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol
Immunogen	Tyrosine hydroxylase purified from pheochromocytoma.

**External Database
Links**

UniProt:

[P04177](#) [Related reagents](#)

Entrez Gene:

[25085](#) Th [Related reagents](#)

RRID

AB_2201650

Specificity

Rabbit anti Rat tyrosine hydroxylase antibody 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 ([Haavik et al. 1998](#)).

Western Blotting

AHP931 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. [Neurosci. 82: 727-8.](#)
2. Fan, W. *et al.* (2010) Structural and cellular features in metaphyseal and diaphyseal periosteum of osteoporotic rats. [J Mol Histol. 41: 51-60.](#)
3. Kim, S.M. *et al.* (2009) Dense-core vesicle proteins IA-2 and IA-2{beta} affect renin synthesis and secretion through the {beta}-adrenergic pathway. [Am J Physiol Renal Physiol. 296: F382-9.](#)
4. Nurul Wahida, A. & Cooper, P.D. (2014) Feeding and the salivary gland response in free-ranging yellow-winged grasshoppers (*Gastrimargus musicus*) [Austral J Zool. 62: 393-400.](#)
5. Wu, X. *et al.* (2012) Desipramine pretreatment improves sympathetic remodeling and ventricular fibrillation threshold after myocardial ischemia. [J Biomed Biotechnol. 2012: 732909.](#)

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.

Guarantee

12 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

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

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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