Datasheet: AHP1545

Description:	RABBIT ANTI BOVINE DOPA DECARBOXYLASE
Specificity:	DOPA DECARBOXYLASE
Other names:	AROMATIC-L-AMINO-ACID DECARBOXYLASE
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			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			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

Bovine

Species Cross Reactivity

Reacts with: Rat

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 DOPA Decarboxylase receptor were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	10mM HEPES pH7.5, 150mM NaCl
Preservative Stabilisers	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol
Immunogen	SDS denatured, recombinant bovine DOPA decarboxylase expressed *E. coli* and purified from inclusion bodies.
External Database Links	**UniProt:** P27718 Related reagents **Entrez Gene:** 280762 DDC Related reagents
RRID	AB_1102526
Specificity	**Rabbit anti Bovine DOPA decarboxylase antibody** recognizes DOPA decarboxylase, also known as aromatic-L-amino acid decarboxylase or DDC), an enzyme that catalyses the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. The enzyme is expressed ubiquitously and is essential for the formation of catecholamines, indoleamines and trace amines. DDC is considered to be the rate-limiting step for the formation of trace amines, but not for the formation of catecholamines or indoleamines. It also becomes rate-limiting for dopamine formation in Parkinson's disease patients treated with L-DOPA.
Western Blotting	AHP1545 detects a band of approximately 55kDa in rat adrenal medulla.
Storage	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.
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/AHP1545 10088
Regulatory	For research purposes only

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

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

'M382810:210513'

Printed on 18 Jan 2024