

Datasheet for 600-401-C74**DOPA Decarboxylase Antibody****Overview**

Description:	Anti-DOPA Decarboxylase (RABBIT) Antibody - 600-401-C74
Item No.:	600-401-C74
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	DOPA Decarboxylase Antibody detects DOPA decarboxylase (aromatic L-amino acid decarboxylase, AADC; DDC) which catalyzes the second reaction in the biosynthesis of catecholamines and serotonin. It is also involved in the biosynthesis of trace amines. DDC antibodies can therefore be used as markers for dopaminergic, noradrenergic and serotonergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse. Anti-DOPA Decarboxylase Antibody is ideal for investigators involved in neurological disorders and, more generally in Neuroscience.
Synonyms:	Aromatic-L-amino-acid decarboxylase, DDC, AADC
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DDC
Reactivity:	Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-DOPA Decarboxylase Antibody was produced in rabbit by repeated immunizations with purified from inclusion bodies and SDS denatured recombinant bovine aromatic DOPA decarboxylase expressed in E. coli.

Purity/Specificity: Anti-DOPA Decarboxylase antibody is directed against DOPA Decarboxylase. Anti-DOPA Decarboxylase antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Anti-DOPA Decarboxylase antibody recognizes DOPA Decarboxylase from rat sources. Cross reactivity bovine expect, reactivity with DOPA Decarboxylase from other species has not been determined.

Relevant Links:

- [NCBI - NP_776332.1](#)
- [UniProtKB - P27718](#)
- [GeneID - 280762](#)

Application Details

Tested Applications:	WB
Application Note:	Anti-DOPA Decarboxylase Antibody is tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 55 kDa in size corresponding to the DDC proteins in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

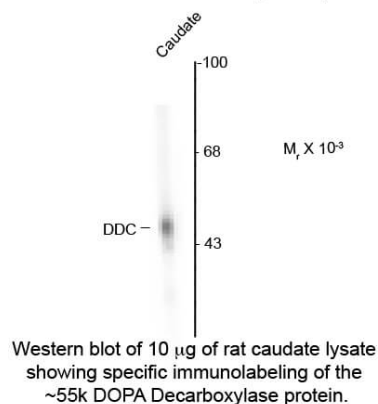
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Anti-DOPA Decarboxylase, Bovine



Western Blot

Western Blot of Rabbit anti-DOPA Decarboxylase Bovine Antibody. Lane 1: rat adrenal medulla. Lane 2: none.
 Load: 10 µg per lane. Primary antibody: DOPA Decarboxylase Bovine antibody at 1:400 for overnight at 4°C.
 Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~55kDa/~55kDa for DDC protein. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.