


Product datasheet

Anti-DOPA Decarboxylase/DDC antibody - N-terminal ab189101

[1 References](#) [3 Images](#)

Overview

Product name	Anti-DOPA Decarboxylase/DDC antibody - N-terminal
Description	Rabbit polyclonal to DOPA Decarboxylase/DDC - N-terminal
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Cow, Human Predicted to work with: Rat, Sheep, Guinea pig, Dog 
Immunogen	Synthetic peptide corresponding to Human DOPA Decarboxylase/DDC (N terminal) conjugated to keyhole limpet haemocyanin. (NP_000781) Database link: P20711
Positive control	Human caudate and bovine adrenal medulla lysates; Human kidney tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.50 Constituents: 0.87% Sodium chloride, 0.24% HEPES, 50% Glycerol (glycerin, glycerine), 0.01% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab189101 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 53 kDa.

Target

Function

Catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine.

Pathway

Catecholamine biosynthesis; dopamine biosynthesis; dopamine from L-tyrosine: step 2/2.

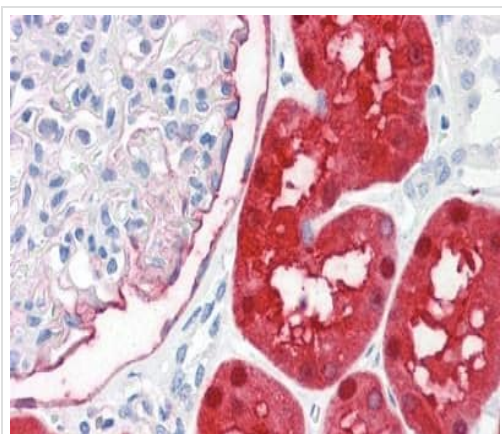
Involvement in disease

Defects in DDC are the cause of aromatic L-amino-acid decarboxylase deficiency (AADCD) [MIM:608643]. AADCD deficiency is an inborn error in neurotransmitter metabolism that leads to combined serotonin and catecholamine deficiency. It causes developmental and psychomotor delay, poor feeding, lethargy, ptosis, intermittent hypothermia, gastrointestinal disturbances. The onset is early in infancy and inheritance is autosomal recessive.

Sequence similarities

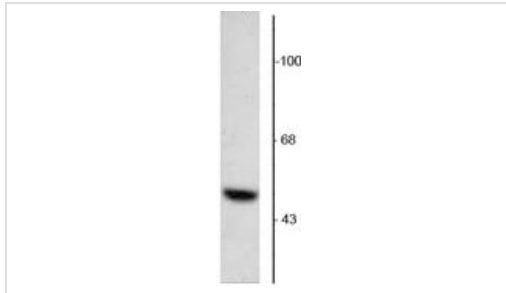
Belongs to the group II decarboxylase family.

Images



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human kidney tissue labeling DOPA Decarboxylase/DDC with ab189101 at 1/100.

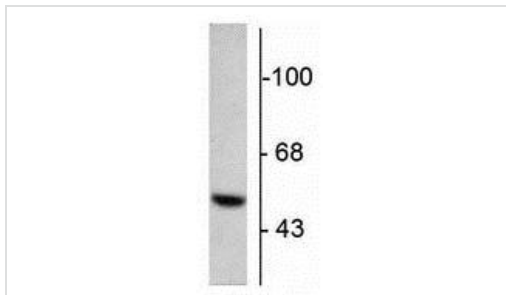
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DOPA Decarboxylase/DDC antibody - N-terminal (ab189101)



Western blot - Anti-DOPA Decarboxylase/DDC antibody - N-terminal (ab189101)

Anti-DOPA Decarboxylase/DDC antibody - N-terminal (ab189101)
at 1/1000 dilution + Human caudate lysate at 20 µg

Predicted band size: 53 kDa



Western blot - Anti-DOPA Decarboxylase/DDC antibody - N-terminal (ab189101)

Anti-DOPA Decarboxylase/DDC antibody - N-terminal (ab189101)
at 1/1000 dilution + Bovine adrenal medulla lysate at 5 µg

Predicted band size: 53 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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