



Product datasheet

Anti-DOPA Decarboxylase/DDC antibody ab233132

4 Images

Overview

Product name	Anti-DOPA Decarboxylase/DDC antibody
Description	Rabbit polyclonal to DOPA Decarboxylase/DDC
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Cow, Human
Immunogen	<p>Recombinant fragment (His-T7-tag) corresponding to Human DOPA Decarboxylase/DDC aa 200-420. Two N-terminal tags.Expressed in E.coli.</p> <p>Sequence:</p> <p>LIGGVKLKAIPSDGNFAMRASALQEALERDKAAGLIPF FMVATLGTTTCC SFDNLLEVGPICNKEDIWLHVDAAYAGSAFICPEFRHL LNGVEFADSFNF NPHKWLLVNFDCSAMWVKKRTDLTGAFRLDPTYLKH SHQDSGLITDYRHW QIPLGRRFRSLKMWFVFRMYGVKGLQAYIRKHVQLSH EFESLVRQDPRFE ICVEVILGLVCFRLKGSNKVN</p> <p>Database link: P20711-1</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	WB: Recombinant human DOPA Decarboxylase/DDC protein; Cow kidney lysate. IHC-P: Human lung tissue.
General notes	Previously labelled as DOPA Decarboxylase.

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	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol</p>
Purity	Immunogen affinity purified

Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab233132** in the following tested applications.

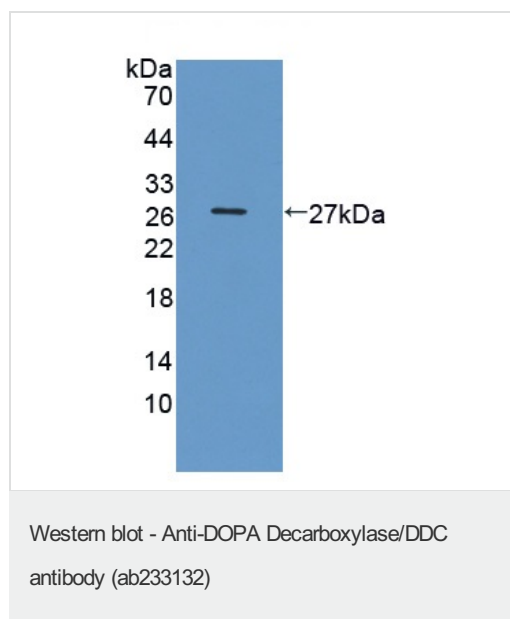
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 54 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

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



Anti-DOPA Decarboxylase/DDC antibody (ab233132) at 2 µg/ml +
Recombinant human DOPA Decarboxylase/DDC protein

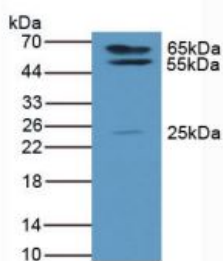
Predicted band size: 54 kDa



Western blot - Anti-DOPA Decarboxylase/DDC antibody (ab233132)

Anti-DOPA Decarboxylase/DDC antibody (ab233132) at 2 µg/ml +
Cow kidney tissue lysate

Predicted band size: 54 kDa



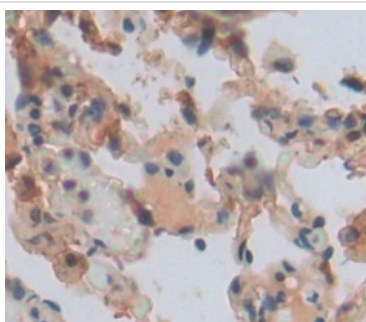
Western blot - Anti-DOPA Decarboxylase/DDC antibody (ab233132)

Anti-DOPA Decarboxylase/DDC antibody (ab233132) at 2 µg/ml +
Cow kidney tissue lysate

Secondary

HRP-Linked Guinea pig anti-Rabbit at 1/1000 dilution

Predicted band size: 54 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DOPA Decarboxylase/DDC antibody (ab233132)

Formalin-fixed, paraffin-embedded human lung tissue stained for DOPA Decarboxylase/DDC using ab233132 at 20 µg/ml in immunohistochemical analysis. DAB staining.

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