Overview

Product name: Anti-DOPA Decarboxylase / DDC antibody
Description: Rabbit polyclonal to DOPA Decarboxylase / DDC
Host species: Rabbit
 Tested applications: Suitable for: ICC, IHC-Fr, IHC-P, WB, ICC/IF, IHC-FoFr
Species reactivity: Reacts with: Mouse, Rat
Immunogen: Recombinant fragment corresponding to Bovine DOPA Decarboxylase/ DDC. expressed in E. coli and purified from inclusion bodies
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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.20
Preservative: 0.1% Sodium azide
Constituents: PBS, 0.316% Tris HCl, 0.05% Tween, 0.238% HEPES, 10% Glycerol, 0.1% BSA
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab3905 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>Use at an assay dependent concentration.</td>
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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 (ab3905) + Mouse cerebellum lysate at 0.2 mg/ml
Performed under reducing conditions.
Western blot - Anti-DOPA Decarboxylase / DDC antibody (ab3905) + Rat adrenal medulla lysate

Immunohistochemistry (Frozen sections) - Anti-DOPA Decarboxylase / DDC antibody (ab3905)
This image is courtesy of an anonymous abreview.

Immunocytochemistry/ Immunofluorescence - Anti-DOPA Decarboxylase / DDC antibody (ab3905)
This image is courtesy of an anonymous abreview.

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