

For Research Use Only

# DOPA decarboxylase/DDC Recombinant antibody, PBS Only

Catalog Number: 85811-2-PBS



## Basic Information

Catalog Number:

85811-2-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0219

GenBank Accession Number:

BC008366

GeneID (NCBI):

1644

UNIPROT ID:

P20711

Full Name:

dopa decarboxylase (aromatic L-amino acid decarboxylase)

Calculated MW:

54 kDa

Observed MW:

48-50 kDa

Purification Method:

Protein A purification

CloneNo.:

243125A1

## Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, mouse

## Background Information

DOPA decarboxylase (DDC), also known as aromatic L-amino acid decarboxylase, belongs to the pyridoxal-dependent aminotransferase superfamily. DDC is an enzyme that converts levodopa into dopamine<sup>14</sup>, the latter being severely depleted in LBD due to the loss of dopaminergic neurons in the substantia nigra (PMID: 3374198, PMID: 28100251). DDC catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. DDC is the cause of aromatic L-amino-acid decarboxylase deficiency (AADCD). Researches showed that Ddc is only one of the enzymes in the biosynthetic pathways for bioamines and catecholamines.

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

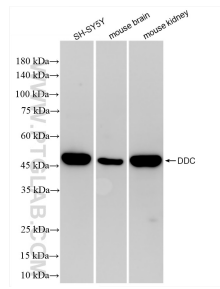
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85811-2-RR (DOPA decarboxylase/DDC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85811-2-PBS in a different storage buffer formulation.