For Research Use Only

DOPA decarboxylase/DDC Recombinant antibody, PBS Only

Catalog Number:85811-2-PBS

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Basic Information

Catalog Number:
85811-2-PBS

Concentration:
1 mg/ml

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

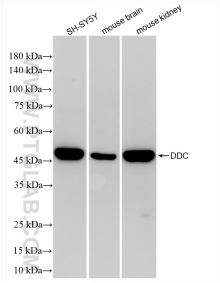
DOPA decarboxylase (DDC), also known as aromatic l-amino acid decarboxylase, belongs to the pyridoxal-dependent aminotransferase superfamily. DDC is an enzyme that converts levodopa into dopamine14, the latter being severely depleted in LBD due to the loss of dopaminergic neurons in the substantia nigra (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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.