For Research Use Only

DOPA decarboxylase/DDC Recombinant antibody

Catalog Number:85811-2-RR

proteintech®
Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
85811-2-RR

Concentration:
1000 μg/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

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : SH-SY5Y cells, mouse brain tissue, mouse kidney tissue

Background Information

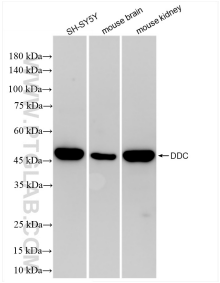
DOPA decarboxylase (DDC), also known as aromatic l-amino acid decarboxylase, belongs to the pyridoxal-dependent aminotransferase superfamily. DDC is an enzyme that converts levodopa into dopamine14, the latter being severely depleted in LBD due to the loss of dopaminergic neurons in the substantia nigra (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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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.