



Rabbit Anti-Human DOPA Decarboxylase/DDC monoclonal antibody, clone S114 (CABT-ZB822)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human DOPA Decarboxylase/DDC
Target	DDC
Immunogen	Recombinant Human DOPA Decarboxylase/DDC Protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	S114
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB822 - CABT-ZB1112 This antibody will detect DOPA Decarboxylase/DDC in antibody pair set. [ABPR-ZB403]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human DOPA Decarboxylase / DDC.
Format	Purified, Liquid
Concentration	Lot specific

Size	50 µL, 100 µL, 1 mL
Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Dopa Decarboxylase (DDC), also known as AADC and Aromatic-L-amino acid decarboxylase, is a 54 kDa member of the group II decarboxylase family of proteins. It is a vitamin B6-dependent homodimeric enzyme that catalyzes the decarboxylation of both L-3,4-dihydroxyphenylalanine (L-DOPA) and L-5-hydroxytryptophan to dopamine and serotonin, respectively, which are major mammalian neurotransmitters and hormones belonging to catecholamines and indoleamines. Since L-DOPA is regularly used to treat the symptoms of Parkinson's disease, the catalytic pathway is of particular research interest. Defects of DDC are associated with severe developmental delay, oculogyric crises (OGC), as well as autosomal recessive disorder AADC deficiency, an early onset inborn error in neurotransmitter metabolism which can lead to catecholamine and serotonin deficiency.
Keywords	DDC; dopa decarboxylase (aromatic L-amino acid decarboxylase); AADC; aromatic-L-amino-acid decarboxylase

GENE INFORMATION

Synonyms	DDC; dopa decarboxylase (aromatic L-amino acid decarboxylase); AADC; aromatic-L-amino-acid decarboxylase
Entrez Gene ID	1644
UniProt ID	P20711