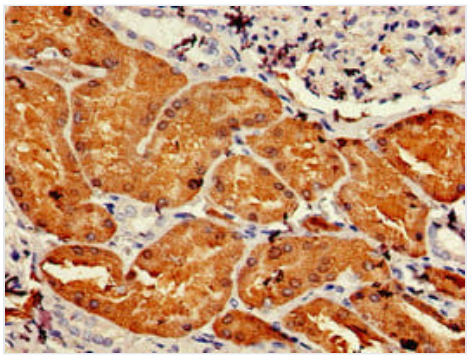
DDC Antibody – Rabbit Polyclonal

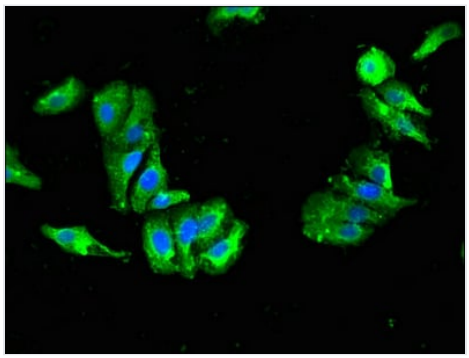
PRODUCT OVERVIEW

Product Name	DDC, Polyclonal Antibody
Full Product Name	DDC Antibody
Product Gene Name	anti-DDC antibody
Product Synonym Names	Aromatic-L-amino-acid decarboxylase; AADC; DOPA decarboxylase; DDC; DDC; AADC
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: DDC (MBS7048009) HRP Conjugated Antibody: DDC (MBS7048010)
Matching Pairs	Unconjugated Antibody: DDC (MBS7048009) FITC Conjugated Antibody: DDC (MBS7048011)
Matching Pairs	Unconjugated Antibody: DDC (MBS7048009) Biotin Conjugated Antibody: DDC (MBS7048012)
Molecular Weight	44,239 Da
OMIM	M76180 mRNA
3D Structure	ModBase 3D Structure for P20711
Immunogen	Recombinant Human Aromatic-L-amino-acid decarboxylase protein (24-215AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-46909 / sc-46911
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DDC antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-DDC antibody	IHC: 1: 20-1: 200 IF: 1: 50-1: 200
Related Product Information for anti-DDC antibody	Catalyzes the decarboxylation of L-3, 4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine.
Other Notes	Small volumes of anti-DDC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for DDC purchase	MBS7048009 is an antibody targeting DDC. Also known as DDC Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-DDC antibody
Immunohistochemistry of paraffin-embedded human kidney tissue using MBS7048009 at dilution of 1:100



Immunofluorescence (IF) of anti-DDC antibody
Immunofluorescent analysis of HepG2 cells using MBS7048009 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDC. It may not necessarily be applicable to this product.

NCBI GI #	4503281
NCBI GeneID	1644
NCBI Accession #	NP_000781.1
UniProt Primary Accession #	P20711
UniProt Secondary Accession #	Q16723; Q5W5T9; Q75MJ6; C9IYA0; E7ER62; E7EU95
UniProt Related Accession #	P20711
GenBank Nucleotide #	NM_000790.3
NCBI Official Full Name	aromatic-L-amino-acid decarboxylase isoform 1
NCBI Official Synonym Full Names	dopa decarboxylase
NCBI Official Symbol	DDC
NCBI Official Synonym Symbols	AADC
UniProt Protein Name	Aromatic-L-amino-acid decarboxylase
UniProt Synonym Protein Names	DOPA decarboxylase; DDC
Protein Family	Aromatic-L-amino-acid decarboxylase
UniProt Gene Name	DDC
UniProt Synonym Gene Names	AADC; AADC; DDC
UniProt Entry Name	DDC_HUMAN
NCBI Protein Information	aromatic-L-amino-acid decarboxylase
NCBI Summary for DDC	The encoded protein catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. Defects in this gene are the cause of aromatic L-amino-acid decarboxylase deficiency (AADCD). AADCD deficiency is an inborn error in neurotransmitter metabolism that leads to combined serotonin and catecholamine deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2011]

UniProt Comments for DDC	DDC: Catalyzes the decarboxylation of L-3,4- dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. Homodimer. Belongs to the group II decarboxylase family. Protein type: Amino Acid Metabolism - histidine; Amino Acid Metabolism - phenylalanine; Amino Acid Metabolism - tryptophan; Amino Acid Metabolism - tyrosine; EC 4.1.1.28; Lyase; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 7p12.2 Cellular Component: cytosol Molecular Function: aromatic-L-amino-acid decarboxylase activity; enzyme binding; protein binding Biological Process: catecholamine biosynthetic process; indolalkylamine biosynthetic process Disease: Aromatic L-amino Acid Decarboxylase Deficiency
Research Articles on DDC	**1.** The results of this study showed that Lack of Association Between Polymorphisms in Dopa decarboxylase Genes With Childhood
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