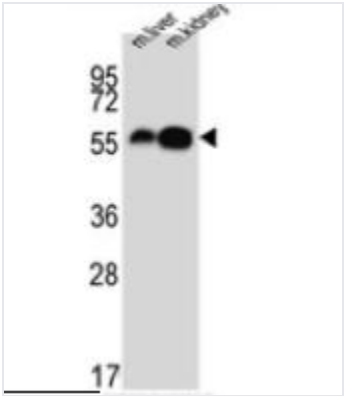
DDC Antibody – Rabbit Polyclonal

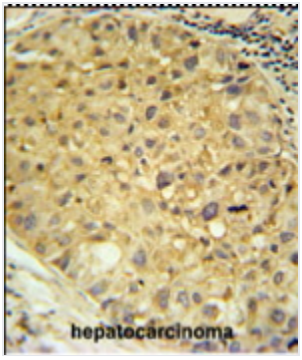
PRODUCT OVERVIEW

Product Name	DDC, Polyclonal Antibody
Full Product Name	DDC, NT (DDC, AADC, Aromatic-L-amino-acid decarboxylase, DOPA decarboxylase) (MaxLight 750)
Product Gene Name	anti-DDC antibody
Product Synonym Names	DDC; AADC; Aromatic-L-amino-acid decarboxylase; DOPA decarboxylase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human DDC. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	44,239 Da
OMIM	gene 608643
3D Structure	ModBase 3D Structure for P20711
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 32-61 in the N-terminal region of human DDC, UniProt Accession #P20711.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-DDC antibody	Antibodies; Enzymes; Decarboxylase
Applications Tested/Suitable for anti-DDC antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-DDC antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DDC antibody	This 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.
Product References and Citations for anti-DDC antibody	1. Kokkinou, I., et al. J. Neuroimmunol. 216 (1-2), 51-58 (2009). 2. Meda, S.A., et al. Neuroimage (2009). Ishikawa, S., et al. J. Biol. Chem. 284(42):28832-28844 (2009). 3. Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009).
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.

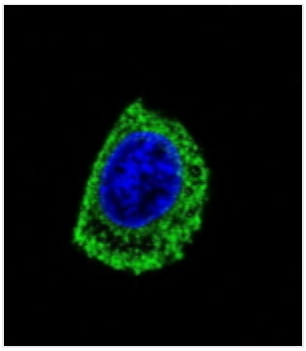
Searchable Terms for DDC purchase	MBS6291253 is an antibody targeting DDC. Also known as DDC, NT (DDC, AADC, Aromatic-L-amino-acid decarboxylase, DOPA decarboxylase) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.



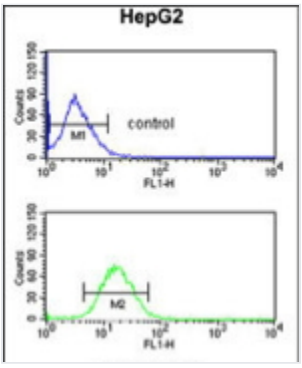
Western Blot (WB) of anti-DDC antibody
Western Blot analysis in mouse liver, kidney tissue lysates (15ug/lane) usingMBS6010126. This demonstrates that MBS6010126 detected DDC protein (arrow).



Immunohistochemistry (IHC) of anti-DDC antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma using MBS6010126 followed by peroxidase conjugation of the secondary antibody and DAB staining.



Immunofluorescence (IF) of anti-DDC antibody
Confocal immunofluorescent analysis of HepG2 cell using MBS6010126 followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-DDC antibody
Flow cytometric analysis of HepG2 cells (bottom histogram) using MBS6010126 compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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 (aromatic L-amino acid 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 - tryptophan; EC 4.1.1.28; Amino Acid Metabolism - histidine; Amino Acid Metabolism - tyrosine; Nuclear receptor co-regulator; Amino Acid Metabolism - phenylalanine; Lyase Chromosomal Location of Human Ortholog: 7p12.2 Cellular Component: synaptic vesicle; cell soma; axon; cytosol Molecular Function: aromatic-L-amino-acid decarboxylase activity; protein domain specific binding; amino acid binding; protein binding; enzyme binding; pyridoxal phosphate binding Biological Process: circadian rhythm; amino acid metabolic process; catecholamine biosynthetic process; indolalkylamine biosynthetic process; multicellular organismal aging; isoquinoline alkaloid metabolic process; dopamine biosynthetic process; serotonin biosynthetic process; phytoalexin metabolic process; synaptic vesicle amine transport; response to pyrethroid Disease: Aromatic L-amino Acid Decarboxylase Deficiency
Research Articles on DDC	**1.** Results indicate that miR-145 has the ability to regulate DDC mRNA expression and potentially this occurs by recognizing its mRNA as a target.
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