

Rabbit anti-Human, mouse DDC Polyclonal Antibody | anti-DDC antibody

DDC Antibody (N-term)

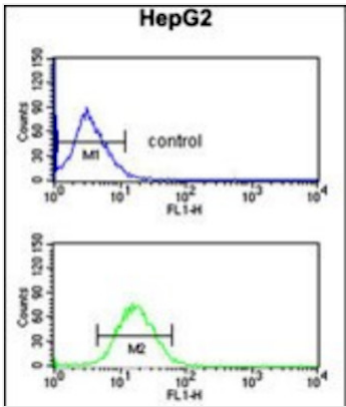
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284110	Rabbit	Human, mouse	Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

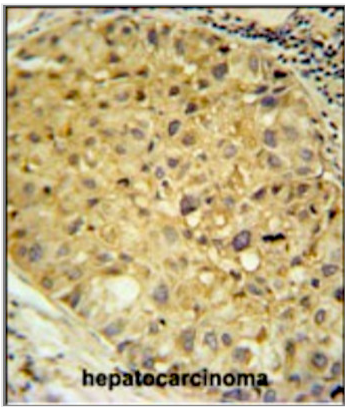
DDC; Polyclonal Antibody; DDC Antibody (N-term); Aromatic-L-amino-acid decarboxylase; AADC; DOPA decarboxylase; anti-DDC antibody

PRODUCT SPECIFICATIONS

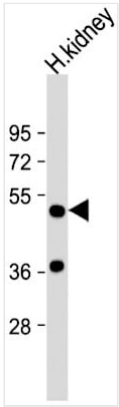
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This DDC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-61 amino acids from the N-terminal region of human DDC.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	32-61
Sequence Length	480
Applicable Applications for anti-DDC antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Function	Catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, and L-5-hydroxytryptophan to serotonin.
Tissue Location	[Isoform 2]: High expression in kidney.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



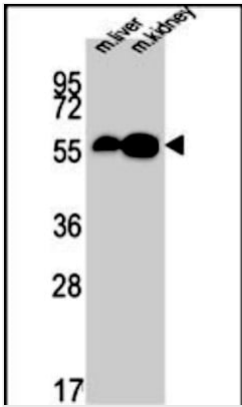
FCM/FACS (Flow Cytometry)
DDC Antibody (N-term) (Cat. # AAA284110) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



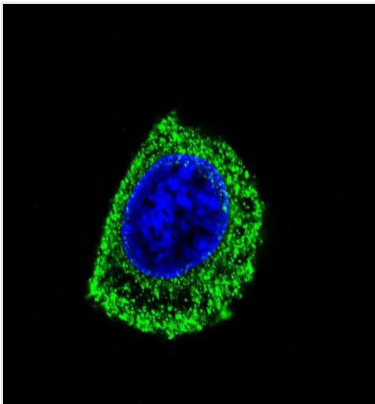
IHC (Immunohistochemistry)
DDC Antibody (N-term) (Cat. # AAA284110) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DDC Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Anti-DDC Antibody (N-term) at 1:1000 dilution + human kidney lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)
DDC Antibody (N-term) (Cat. # AAA284110) western blot analysis in mouse liver,kidney tissue lysates (15ug/lane).This demonstrates the DDC antibody detected DDC protein (arrow).



IF (Immunofluorescence)
Confocal immunofluorescent analysis of DDC Antibody (N-term)(AAA284110) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL INFORMATION

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 Categories/Family for anti-DDC antibody	Cancer; Metabolism; Neuroscience
References	Kokkinou, I., et al. J. Neuroimmunol. 216 (1-2), 51-58 (2009) : Meda, S.A., et al. Neuroimage (2009) Ishikawa, S., et al. J. Biol. Chem. 284(42):28832-28844(2009) Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503281
NCBI GeneID	1644
NCBI Accession #	NP_000781.1; NP_001076440.1; NP_001229815.1; NP_001229816.1; NP_001229817.1; NP_001229818.1; NP_001229819.1
NCBI GenBank Nucleotide #	NM_000790.3
UniProt Accession #	P20711; Q16723; Q5W5T9; Q75MJ6; C9IYA0; E7ER62; E7EU95
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
NCBI Protein Information	aromatic-L-amino-acid decarboxylase
UniProt Protein Name	Aromatic-L-amino-acid decarboxylase
UniProt Gene Name	DDC
UniProt Synonym Gene Names	AADC; AADC; DDC
UniProt Entry Name	DDC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.