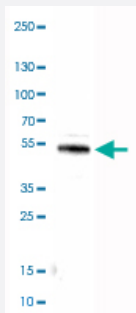


DDC monoclonal antibody, clone CL2962

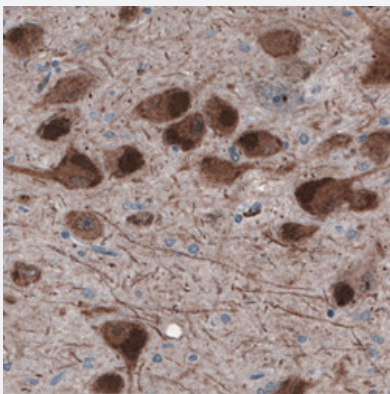
Catalog # MAB15780 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western Blot analysis of human kidney tissue lysate with DDC monoclonal antibody, clone CL2962 (Cat # MAB15780).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human substantia nigra with DDC monoclonal antibody, clone CL2962 (Cat # MAB15780) shows strong immunoreactivity in dopamine neurons.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human DDC.
Immunogen	Recombinant protein corresponding to human DDC.
Epitope	This antibody binds to an epitope located within the peptide sequence MDWL GKMLEL as determined by overlapping synthetic peptides.
Sequence	LETVMMDWL GKMLELPKAF LNEKAGEGGGV IQGSASEATLVALLAARTKVIHRLQAASPELTQAA IMEKL VAYSSDQAHS SVERAGLIGGVKLKAIPSDGNFAMRASA
Host	Mouse

Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:1000-1:2500) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western Blot analysis of human kidney tissue lysate with DDC monoclonal antibody, clone CL2962 (Cat # MAB15780).

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Gene Info — DDC

Entrez GeneID	1644
Protein Accession#	P20711
Gene Name	DDC
Gene Alias	AADC
Gene Description	dopa decarboxylase (aromatic L-amino acid decarboxylase)
Omim ID	107930 608643
Gene Ontology	Hyperlink

Gene Summary

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. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq]

Other Designations

L-Dopa decarboxylase|aromatic L-amino acid decarboxylase

Pathway

- [Betain biosynthesis](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Histidine metabolism](#)
- [Isoquinoline alkaloid biosynthesis](#)
- [Metabolic pathways](#)
- [Phenylalanine metabolism](#)
- [Tryptophan metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Anorexia Nervosa](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)

- [Disease Models](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Infant](#)
- [Mental Disorders](#)
- [Migraine Disorders](#)
- [NARP](#)
- [Obesity](#)
- [Ovarian Failure](#)
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- [Polycystic Ovary Syndrome](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sensation](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)