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DDC Recombinant Rabbit mAb

Catalog # AP99566

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P20711
Other Accession	P20711
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	53926
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the group II decarboxylase family.
SUBUNIT	Homodimer.
DISEASE	Defects in DDC are the cause of aromatic L-amino-acid decarboxylase deficiency (AADCD) [MIM:608643]. AADCD deficiency is an inborn error in neurotransmitter metabolism that leads to combined serotonin and catecholamine deficiency. It causes developmental and psychomotor delay, poor feeding, lethargy, ptosis, intermittent hypothermia, gastrointestinal disturbances. The onset is early in infancy and inheritance is autosomal recessive.
Background Descriptions	dopa decarboxylase(DDC) Homo sapiens 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],

Additional Information

Gene ID	1644
Other Names	AADC; DDC_HUMAN; DDC; DOPA decarboxylase (DDC); 4.1.1.28; DDC_MOUSE; DDC_RAT; dopa decarboxylase; aromatic L-amino acid decarboxylase; Aromatic-L-amino-acid decarboxylase (AADC) (DOPA decarboxylase) (DDC)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DDC {ECO:0000303|PubMed:15532536, ECO:0000312|HGNC:HGNC:2719}
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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.