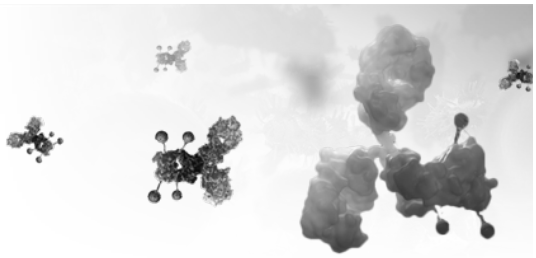

Anti-DDC polyclonal antibody (CPBT-66703RB)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product recognises DOPA decarboxylase (aromatic-L-amino acid decarboxylase, DDC), an enzyme that catalyses the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. The enzyme is expressed ubiquitously and is essential for the formation of catecholamines, indoleamines and trace amines. DDC is considered to be the rate-limiting step for the formation of trace amines, but not for the formation of catecholamines or indoleamines. It also becomes rate-limiting for dopamine formation in Parkinson's disease patients treated with L-DOPA. Western Blotting detects a band of approximately 55kDa in rat adrenal medulla.
Specificity	DOPA DECARBOXYLASE
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Bovine, Rat
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

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Gene Name	DDC dopa decarboxylase (aromatic L-amino acid decarboxylase) [Bos taurus (cattle)]
Official Symbol	DDC
Synonyms	DDC; aromatic-L-amino-acid decarboxylase; AADC; aromatic L-amino acid decarboxylase; DOPA DECARBOXYLASE;
Entrez Gene ID	280762
Protein Refseq	NP_776332
UniProt ID	P27718
Chromosome Location	chromosome: 4
Pathway	Alcoholism; Amine-derived hormones; Amphetamine addiction; Catecholamine biosynthesis; Catecholamine biosynthesis, tyrosine => dopamine => noradrenaline => adrenaline; Cocaine addiction; Dopaminergic synapse; Histidine metabolism;
Function	aromatic-L-amino-acid decarboxylase activity; pyridoxal phosphate binding;

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