Product name:	DBH Rabbit Polyclonal Antibody
Cat number:	ABN09813
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human DBH. AA range:401-450
Reactivity:	Human,Rat,Mouse
Applications:	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight:	69kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. It is present in the synaptic vesicles of postganglionic sympathetic neurons and converts dopamine to norepinephrine. It exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. [provided by RefSeq, Jul 2008],catalytic activity:3,4-dihydroxyphenethylamine + ascorbate + O(2) = noradrenaline + dehydroascorbate + H(2)O.,cofactor:Binds 1 PQQ per subunit.,cofactor:Binds 2 copper ions per subunit.,disease:Defects in DBH are the cause of DBH deficiency [MIM:223360]; also called norepinephrine deficiency or noradrenaline deficiency. This disorder is characterized by profound deficits in autonomic and cardiovascular function, but apparently only subtle signs, if any, of central nervous system dysfunction.,function:Conversion of dopamine to noradrenaline.,induction:Activity is enhanced by nerve growth factor (in superior cervical ganglia and adrenal medulla). Trans-synaptic stimulation with reserpine, acetylcholine and glucocorticoids.,online information:Dopamine beta hydroxylase entry,pathway:Catecholamine biosynthesis; norepinephrine biosynthesis; norepinephrine from dopamine: step 1/1.,polymorphism:There are two main alleles of DBH: DBH-A with Ala-318 and DBH-B with Ser-318.,similarity:Belongs to the copper type II ascorbate-dependent monooxygenase family.,similarity:Contains 1 DOMON domain.,subunit:Homotetramer composed of two non-covalently bound disulfide-linked dimers.,