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**Product Name: DBH Rabbit Polyclonal Antibody****Catalog #: APRab09813**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	69kDa

**Antigen Information**

<b>Gene Name</b>	DBH
<b>Alternative Names</b>	DBH; Dopamine beta-hydroxylase; Dopamine beta-monoxygenase
<b>Gene ID</b>	1621.0
<b>SwissProt ID</b>	P09172
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DBH. AA range:401-450

**Background**

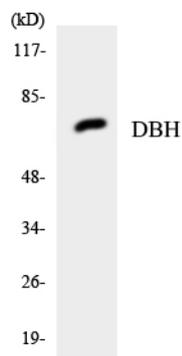
The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monoxygenase

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.,

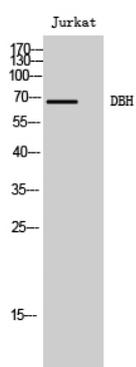
## Research Area

Tyrosine metabolism;

## Image Data



Western blot analysis of the lysates from Jurkat cells using DBH antibody.



Western Blot analysis of Jurkat cells using DBH Polyclonal Antibody