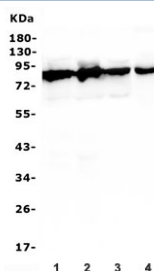


## DBH Antibody / Dopamine beta Hydroxylase (RQ5573)

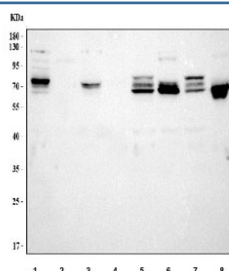
Catalog No.	Formulation	Size
RQ5573	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P09172
<b>Applications</b>	Western Blot : 0.25-0.5ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This DBH antibody is available for research use only.



Western blot testing of 1) rat PC-12, 2) rat liver, 3) mouse liver and 4) human SHG-44 lysate with DBH antibody. Predicted molecular weight ~69 kDa.



Western blot testing of 1) human SH-SY5Y, 2) human Jurkat, 3) human U-87 MG, 4) human U-2 OS, 5) rat brain, 6) rat C6, 7) mouse brain and 8) mouse Neuro-2a cell lysate with DBH antibody. Predicted molecular weight ~69 kDa.

## Description

Dopamine beta-hydroxylase (DBH), also known as dopamine beta-monooxygenase, is an enzyme (EC1.14.17.1) that in humans is encoded by the DBH gene. Dopamine beta-hydroxylase catalyzes the chemical reaction. It is mapped to 9q34.2. The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. The encoded protein, expressed in neurosecretory vesicles and chromaffin granules of the adrenal medulla, catalyzes the conversion of dopamine to norepinephrine, which functions as both a hormone and as the main neurotransmitter of the sympathetic nervous system. The enzyme encoded by this gene exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. Mutations in this gene cause dopamine beta-hydroxylase deficiency in human patients, characterized by deficits in autonomic and cardiovascular function, including hypotension and ptosis. Polymorphisms in this gene may play a role in a variety of psychiatric disorders.

## Application Notes

Optimal dilution of the DBH antibody should be determined by the researcher.

## Immunogen

A human recombinant protein (amino acids S40-N545) was used as the immunogen for the DBH antibody.

## Storage

After reconstitution, the DBH antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.