

## Anti-Dopamine beta Hydroxylase/DBH Antibody Picoband® Biotin Conjugated

Catalog Number: A01110-Biotin

### About DBH

Dopamine beta-hydroxylase (DBH), also known as dopamine beta-monoxygenase, 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 monoxygenase 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.

### Overview

Product Name	Anti-Dopamine beta Hydroxylase/DBH Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P09172

### Technical Details

Immunogen	E.coli-derived human Dopamine beta Hydroxylase/DBH recombinant protein (Position: S40-N545).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

Suggested Dilutions

The intended application should be selected according to the customer's experimental requirements.

## 1 Publications Citing This Product

1. PubMed ID: 30315688, Ren S, Chen M, Yang L, Liu Z. 5-Hydroxytryptamine and Dopamine Neurons in the Cerebellum of the New-Hatching Yangtze Alligator *Alligator sinensis*. *Anat Rec (Hoboken)*. 2019 Jun;302(6):861-868. doi:10.1002/ar.23982. Epub 2018 Nov 13. PMID:30315688.

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