

Product datasheet

# Human Dopamine beta Hydroxylase Antibody Pair - BSA and Azide free ab253463

Recombinant RabMAb

1 Image

Overview

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<b>Product name</b>	Human Dopamine beta Hydroxylase Antibody Pair - BSA and Azide free
<b>Assay type</b>	ELISA set
<b>Range</b>	78.125 pg/ml - 5000 pg/ml
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Product overview</b>	Both capture and detector antibodies are <b>recombinant rabbit monoclonal antibodies</b> delivering consistent, specific, and sensitive results.

The Antibody Pair can be used to quantify Human Dopamine beta Hydroxylase. BSA and Azide free antibody pairs include **unconjugated** capture and detector antibodies suitable for sandwich ELISAs. The antibodies are provided at an approximate concentration of 1 mg/ml as measured by the protein A280 method. The recommended antibody orientation is based on internal optimization for ELISA-based assays. Antibody orientation is assay dependent and needs to be optimized for each assay type.

For additional information on the performance of the antibody pair, see the equivalent SimpleStep ELISA® Kit ([ab277076](#)), which uses the same antibodies. However, due to differences in their formulation, this antibody pair cannot be used with the consumables provided with our SimpleStep ELISA Kits. Please note that the range provided for the pairs is only an estimation based on the performance of the related product using the same antibody pair. Performance of the antibody pair will depend on the specific characteristics of your assay. We guarantee the product works in sandwich ELISA, but we do not guarantee the sensitivity or dynamic range of the antibody pair in your assay.

Download SDS [here](#).

<b>Tested applications</b>	<b>Suitable for:</b> Sandwich ELISA
<b>Platform</b>	Reagents

Properties

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**Storage instructions** Store at +4°C. Please refer to protocols.

**Carrier free** Yes

Components	10 x 96 tests
Human Dopamine beta Hydroxylase Capture Antibody (unconjugated)	1 x 100µg
Human Dopamine beta Hydroxylase Detector Antibody (unconjugated)	1 x 100µg

**Function** Conversion of dopamine to noradrenaline.

**Pathway** Catecholamine biosynthesis; (R)-noradrenaline biosynthesis; (R)-noradrenaline from dopamine: step 1/1.

**Involvement in disease** Defects in DBH are the cause of dopamine beta-hydroxylase deficiency (DBH deficiency) [MIM:223360]; also known as 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.

**Sequence similarities** Belongs to the copper type II ascorbate-dependent monooxygenase family. Contains 1 DOMON domain.

**Cellular localization** Cytoplasmic vesicle > secretory vesicle lumen. Cytoplasmic vesicle > secretory vesicle > chromaffin granule lumen and Cytoplasmic vesicle > secretory vesicle membrane. Cytoplasmic vesicle > secretory vesicle > chromaffin granule membrane.

## Applications

Our [Abpromise guarantee](#) covers the use of **ab253463** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use at an assay dependent concentration.

## Images

Powered by  
recombinant antibodies



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Sandwich ELISA - Human Dopamine beta

Hydroxylase Antibody Pair - BSA and Azide free

(ab253463)

To learn more about the advantages of recombinant antibodies see [here](#).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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