

Product datasheet

Anti-Dopamine beta Hydroxylase antibody - BSA and Azide free (Detector) ab277246

Recombinant RabMAb

Overview

Product name	Anti-Dopamine beta Hydroxylase antibody - BSA and Azide free (Detector)
Description	Rabbit monoclonal to Dopamine beta Hydroxylase - BSA and Azide free (Detector)
Host species	Rabbit
Tested applications	Suitable for: Sandwich ELISA
Species reactivity	Reacts with: Human
General notes	<p>ab277246 is a BSA and Azide Free antibody supplied in an unconjugated format and it is suitable for sandwich ELISAs to quantify Human Dopamine beta Hydroxylase. The recommended pair for sandwich ELISA is:</p> <p style="padding-left: 20px;">Capture: ab277245, Human Dopamine beta Hydroxylase Capture Antibody (unconjugated)</p> <p style="padding-left: 20px;">Detector: ab277246, Human Dopamine beta Hydroxylase Detector Antibody (unconjugated)</p> <p>The reference range value is 78.125 - 5000 pg/ml.</p> <p>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. Please note that the range provided for this antibody is only an estimation based on the performance of the product using the recommended 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 in your assay.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. The antibodies are provided at an approximate concentration of 1 mg/ml as measured by the protein A280 method. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next</p>

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Clonality	Monoclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab277246** 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. Can be paired for Sandwich ELISA with Rabbit monoclonal to Dopamine beta Hydroxylase - BSA and Azide free (Capture) (ab277245) .

Target

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.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors