

## Product datasheet

# Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free ab234527

Recombinant RabMAb

[7 Images](#)

### Overview

<b>Product name</b>	Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR21877] to Neuropeptide Y - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Neuropeptide Y aa 50 to the C-terminus. The exact sequence is proprietary. Database link: <a href="#">P01303</a>
<b>Positive control</b>	IHC-P: Human pheochromocytoma tissue; Mouse and rat adrenal gland tissue; Mouse cerebrum tissue. IHC-Fr: Mouse and rat cerebrum tissue.
<b>General notes</b>	<p>Ab234527 is the carrier-free version of <a href="#">ab221145</a>. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our <a href="#">carrier-free formats</a> are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab234527 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</p>

Reproducibility is key to advancing scientific discovery and accelerating scientists' next 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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR21877
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab234527** in the following tested applications.

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

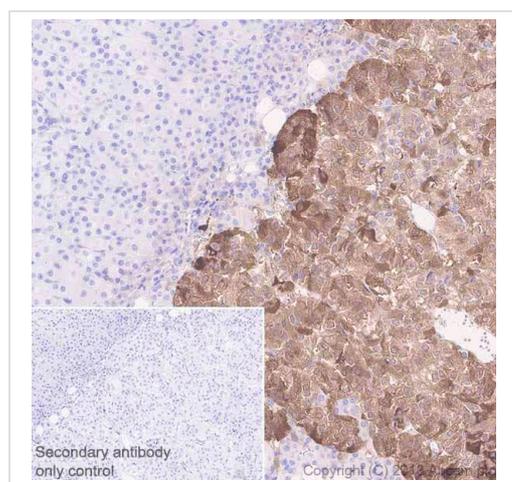
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. 1:2000 dilution recommended for human, mouse and rat species. 1:10000 dilution recommended for mouse adrenal gland tissue. Perform antigen retrieval with universal HIER antigen retrieval reagent (10X) ( <a href="#">ab208572</a> )
IHC-Fr		Use at an assay dependent concentration.

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## Target

<b>Function</b>	NPY is implicated in the control of feeding and in secretion of gonadotrophin-release hormone.
<b>Tissue specificity</b>	One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla.
<b>Sequence similarities</b>	Belongs to the NPY family.
<b>Cellular localization</b>	Secreted.

## Images

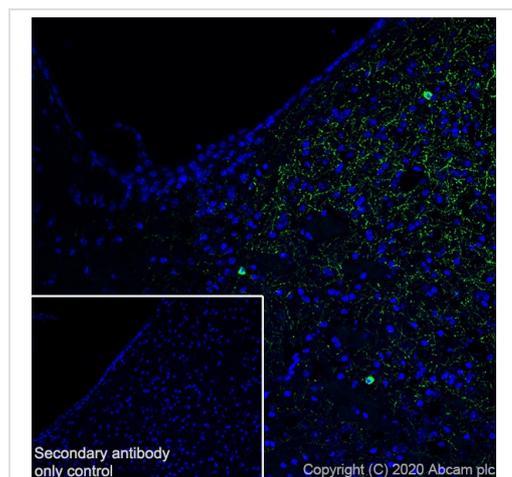


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free (ab234527)

Immunohistochemical analysis of paraffin-embedded mouse adrenal gland tissue labeling Neuropeptide Y with [ab221145](#) at 1/1000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) ready to use. Positive staining on chromaffin cells of mouse adrenal gland medulla (PMID: 26444585) is observed. Counterstained with hematoxylin. Universal HIER antigen retrieval reagent (10X) ([ab208572](#)) was used for the antigen retrieval.

Secondary antibody only control: used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab221145](#)).



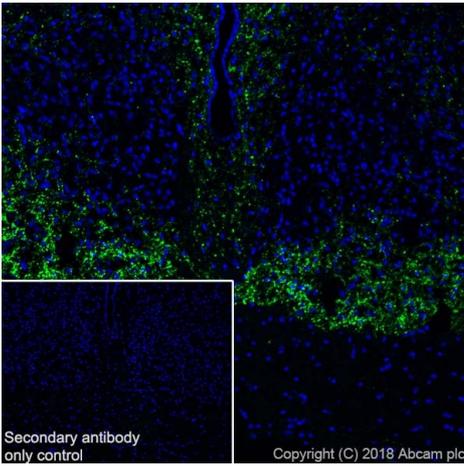
Immunohistochemistry (Frozen sections) - Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free (ab234527)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse cerebrum tissue labeling Neuropeptide Y with [ab221145](#) at 1/500 dilution followed by [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) at 1/1000 (2 ug/ml) dilution (Green). Positive staining on mouse cerebrum. is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) at 1000 (2 ug/ml) dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab221145](#)).



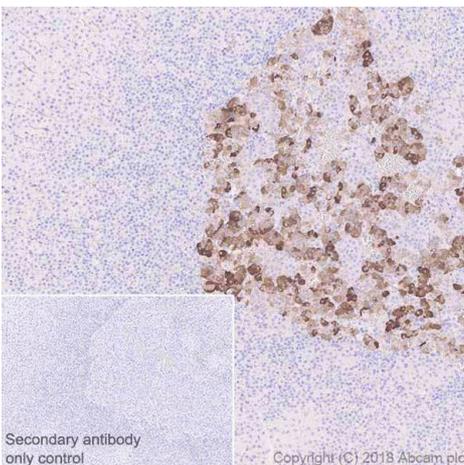
Immunohistochemistry (Frozen sections) - Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free (ab234527)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized rat cerebrum tissue labeling Neuropeptide Y with [ab221145](#) at 1/100 dilution, followed by AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. Positive staining in hypothalamic paraventricular nucleus of rat cerebrum (PMID: 19357287) is observed. Counterstained with DAPI (Nuclear).

Perform heat mediated antigen retrieval with sodium citrate buffer (10 mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab221145](#)).

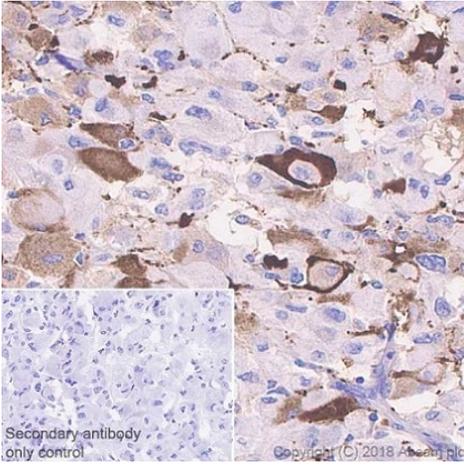


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free (ab234527)

Immunohistochemical analysis of paraffin-embedded rat adrenal gland tissue labeling Neuropeptide Y with [ab221145](#) at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) ready to use. Cytoplasmic staining in chromaffin cells of rat adrenal gland medulla (PMID: 15623622) is observed. Counterstained with hematoxylin. Universal HIER antigen retrieval reagent (10X) ([ab208572](#)) was used for the antigen retrieval.

Secondary antibody only control: used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab221145](#)).

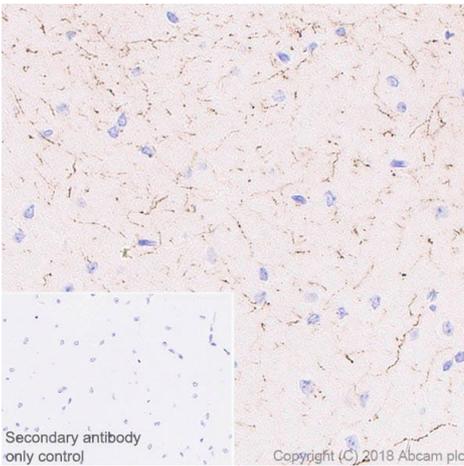


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free (ab234527)

Immunohistochemical analysis of paraffin-embedded human pheochromocytoma tissue labeling Neuropeptide Y with [ab221145](#) at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) ready to use. Cytoplasmic staining in human pheochromocytoma (PMID: 15623622) is observed. Counterstained with hematoxylin. Universal HIER antigen retrieval reagent (10X) ([ab208572](#)) was used for the antigen retrieval.

Secondary antibody only control: used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab221145](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuropeptide Y antibody [EPR21877] - BSA and Azide free (ab234527)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling Neuropeptide Y with [ab221145](#) at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) ready to use. Positive staining on mouse cerebrum (PMID: 26444585) is observed. Counterstained with hematoxylin. Universal HIER antigen retrieval reagent (10X) ([ab208572](#)) was used for the antigen retrieval.

Secondary antibody only control: used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab221145](#)).

### Why choose a recombinant antibody?



**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

Anti-Neuropeptide Y antibody [EPR21877] - BSA  
and Azide free (ab234527)

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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