

## Product datasheet

# Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free ab240318

Recombinant **RabMAb**

[6 Images](#)

### Overview

<b>Product name</b>	Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR14638] to Nkx2.2 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment within Human Nkx2.2 aa 1-150 (N terminal). The exact sequence is proprietary. Database link: <a href="#">O95096</a>
<b>General notes</b>	Ab240318 is the carrier-free version of <a href="#">ab191077</a> . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab240318 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

*Maxpar® is a trademark of Fluidigm Canada Inc.*

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

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>	EPR14638
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab240318** 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
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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## Target

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**Function** May be involved in specifying diencephalic neuromeric boundaries, and in controlling the

expression of genes that play a role in axonal guidance.

### Sequence similarities

Belongs to the NK-2 homeobox family.

Contains 1 homeobox DNA-binding domain.

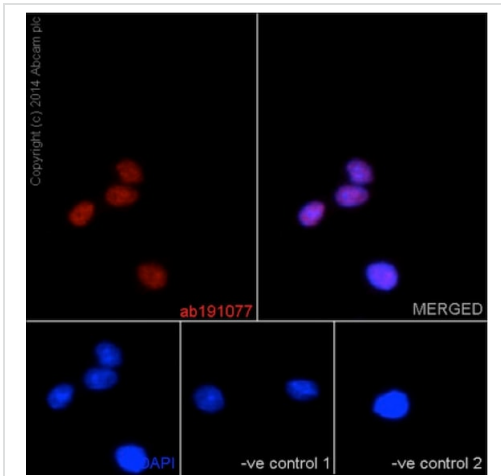
### Domain

The homeodomain is essential for interaction with OLIG2.

### Cellular localization

Nucleus.

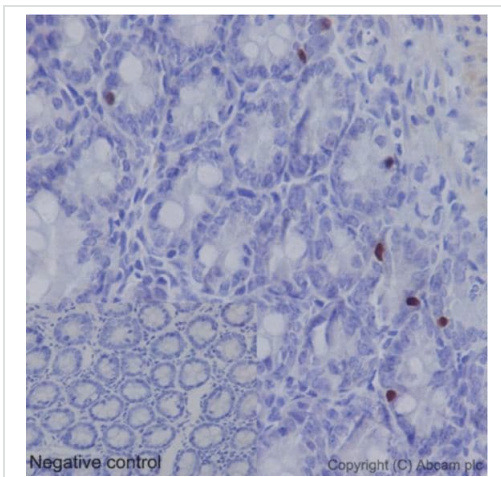
## Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed C6 cells labeling Nkx2.2 with [ab191077](#) at 1/50, Goat anti rabbit IgG (Alexa Fluor® 555) at 1/200 and DAPI staining (blue). Negative controls also shown.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab191077](#)).

Immunocytochemistry/ Immunofluorescence - Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free (ab240318)

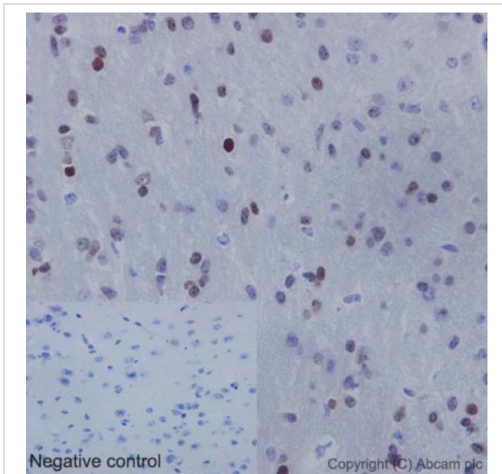


Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling Nkx2.2 with [ab191077](#) at 1/1000. Secondary antibody Goat anti rabbit IgG (HRP) prediluted. Counter stain Hematoxylin. Negative control also shown.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab191077](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free (ab240318)

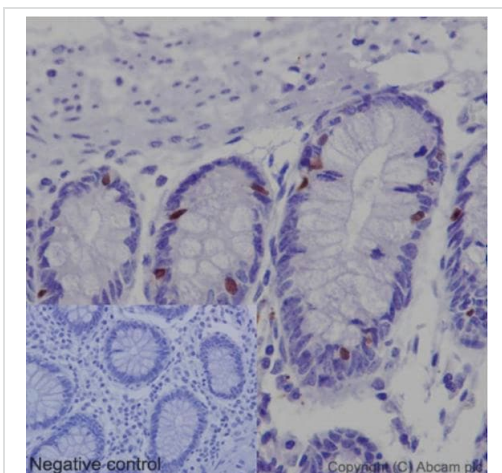


Immunohistochemical analysis of paraffin-embedded Mouse brain tissue labeling Nkx2.2 with [ab191077](#) at 1/1000. Secondary antibody Goat anti rabbit IgG (HRP) prediluted. Counter stain Hematoxylin. Negative control also shown.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab191077](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free (ab240318)

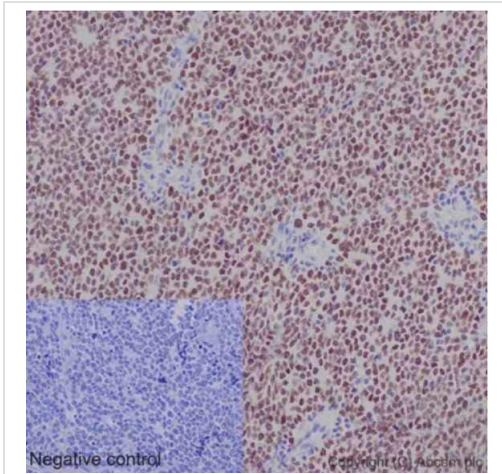


Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Nkx2.2 with [ab191077](#) at 1/1000. Secondary antibody Goat anti rabbit IgG (HRP) prediluted. Counter stain Hematoxylin. Negative control also shown.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab191077](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free (ab240318)



Immunohistochemical analysis of paraffin-embedded Human Ewing sarcoma tissue labeling Nkx2.2 with [ab191077](#) at 1/1000.





Secondary antibody Goat anti rabbit IgG (HRP) prediluted. Counter stain Hematoxylin. Negative control also shown.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab191077](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free (ab240318)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Nkx2.2 antibody [EPR14638] - BSA and Azide free (ab240318)

**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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