

## Product datasheet

# Anti-Axin 2 antibody [EPR2005(2)] - BSA and Azide free ab192230

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-Axin 2 antibody [EPR2005(2)] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR2005(2)] to Axin 2 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human, Pig
<b>Immunogen</b>	Synthetic peptide within Human Axin 2 aa 50-150. The exact sequence is proprietary.
<b>Positive control</b>	MCF7, SW480, and PC3 cell lysates
<b>General notes</b>	Ab192230 is the carrier-free version of <a href="#">ab109307</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.

ab192230 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: 7.20 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	Protein-A purification via MabSelect SuRe
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR2005(2)
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab192230** in the following tested applications.

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

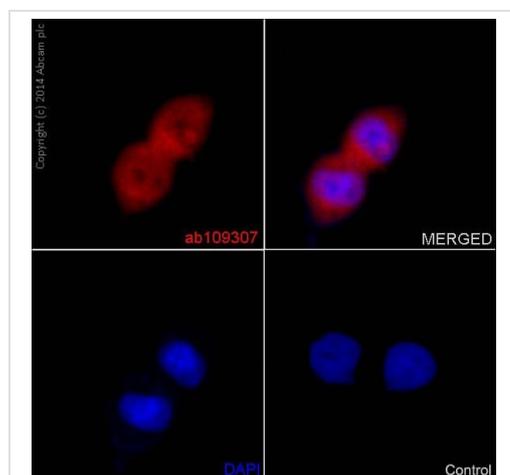
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 95 kDa (predicted molecular weight: 94 kDa).

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## Target

<b>Function</b>	Inhibitor of the Wnt signaling pathway. Down-regulates beta-catenin. Probably facilitate the phosphorylation of beta-catenin and APC by GSK3B.
<b>Tissue specificity</b>	Expressed in brain and lymphoblast.
<b>Involvement in disease</b>	Defects in AXIN2 are involved in colorectal cancer (CRC) [MIM:114500]. They appear to be specifically associated with defective mismatch repair. Defects in AXIN2 are the cause of oligodontia-colorectal cancer syndrome (ODCRCS) [MIM:608615]. Affected individuals manifest severe tooth agenesis and colorectal cancer or precancerous lesions of variable types.
<b>Sequence similarities</b>	Contains 1 DIX domain. Contains 1 RGS domain.
<b>Domain</b>	The tankyrase-binding motif (also named TBD) is required for interaction with tankyrase TNKS and TNKS2.
<b>Post-translational modifications</b>	Probably phosphorylated by GSK3B and dephosphorylated by PP2A. ADP-ribosylated by tankyrase TNKS and TNKS2. Poly-ADP-ribosylated protein is recognized by RNF146, followed by ubiquitination and subsequent activation of the Wnt signaling pathway. Ubiquitinated by RNF146 when poly-ADP-ribosylated, leading to its degradation and subsequent activation of the Wnt signaling pathway. Deubiquitinated by USP34, deubiquitinated downstream of beta-catenin stabilization step: deubiquitination is important Wnt signaling to positively regulate beta-catenin (CTNBB1)-mediated transcription.
<b>Cellular localization</b>	Cytoplasm.

## Images

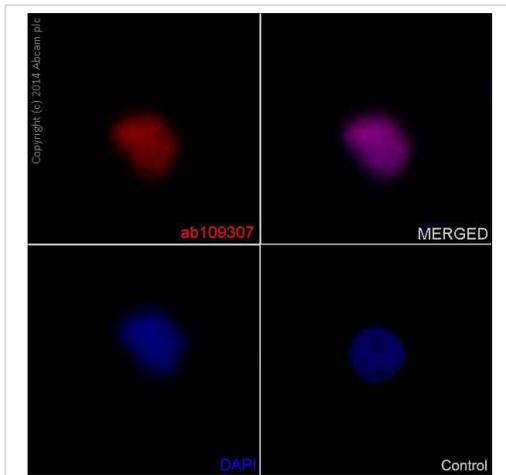


Immunocytochemistry/ Immunofluorescence - Anti-Axin 2 antibody [EPR2005(2)] - BSA and Azide free (ab192230)

Immunocytochemistry/Immunofluorescence analysis of LnCap cells labelling Axin 2 with purified [ab109307](#) at 1/150. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor<sup>®</sup> 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/150) and secondary antibody, [ab150113](#), an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-mouse IgG (1/500).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109307](#)).

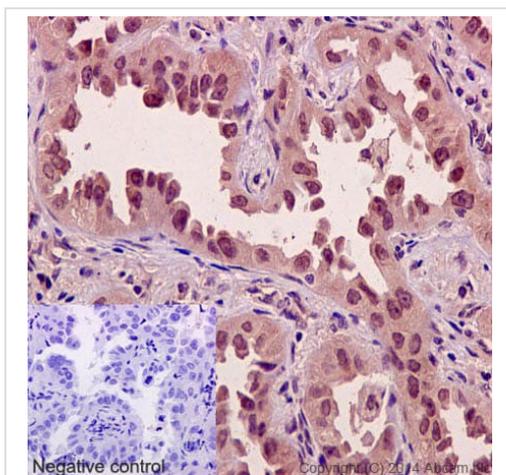


Immunocytochemistry/ Immunofluorescence - Anti-Axin 2 antibody [EPR2005(2)] - BSA and Azide free (ab192230)

Immunocytochemistry/Immunofluorescence analysis of LnCap cells labelling Axin 2 with unpurified [ab109307](#) at 1/150. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor<sup>®</sup> 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/150) and secondary antibody, [ab150113](#), an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-mouse IgG (1/500).

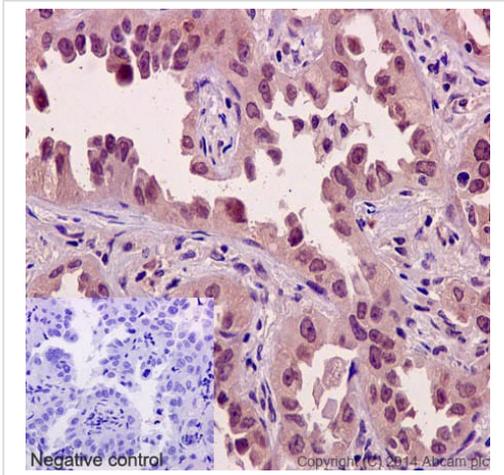
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Axin 2 antibody [EPR2005(2)] - BSA and Azide free (ab192230)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue labelling Axin 2 with purified [ab109307](#) at 1/150. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

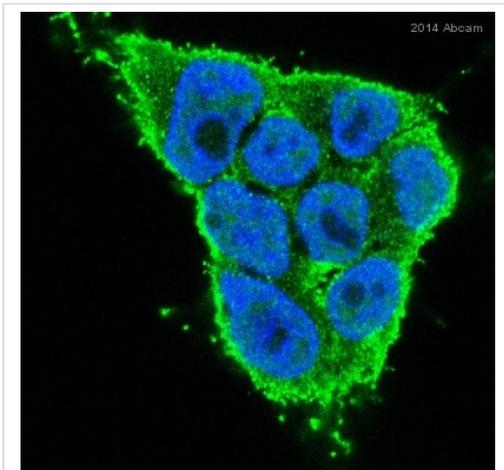
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue labelling Axin 2 with unpurified [ab109307](#) at 1/150. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

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Immunocytochemistry/ Immunofluorescence - Anti-Axin 2 antibody [EPR2005(2)] - BSA and Azide free (ab192230)

This image is courtesy of an anonymous Abreview.

Unpurified [ab109307](#) staining Axin 2 in 293T cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 1% Triton X-100 and blocked with 3% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/50 in PBS + 3% BSA) for 16 hours. An Alexa Fluor<sup>®</sup> 488-conjugated donkey anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109307](#)).

### 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-Axin 2 antibody [EPR2005(2)] - BSA and Azide free (ab192230)

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

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- 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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