

## Product datasheet

# Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free ab232631

**KO VALIDATED** Recombinant RabMAB

6 Images

### Overview

<b>Product name</b>	Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR15891] to p18 INK4c/CDKN2C - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment within Human p18 INK4c/CDKN2C aa 1-150. The exact sequence is proprietary. Database link: <a href="#">P42773</a>
<b>Positive control</b>	IHC-P: Human glioma tissue; Mouse brain tissue. WB: HeLa, rat kidney and Jurkat cell lysates. ICC/IF: HeLa cells. IP: HeLa cell lysate.
<b>General notes</b>	<p>ab232631 is the carrier-free version of <a href="#">ab192239</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>Ab232631 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 was previously labelled as p18 INK4c</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>	EPR15891
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab232631** 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
WB		Use at an assay dependent concentration. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).
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.

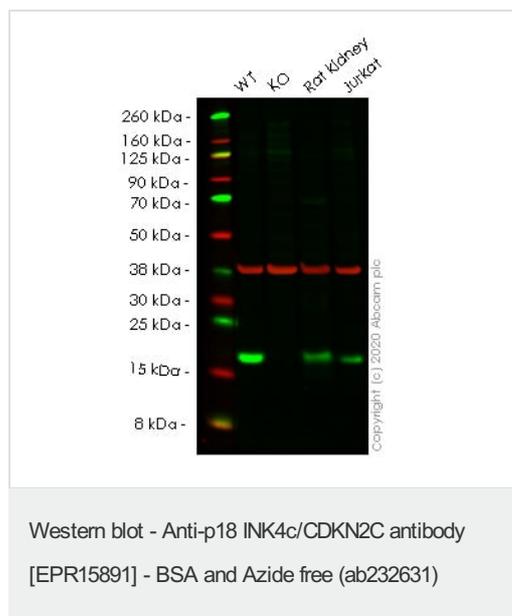
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Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

## Target

<b>Function</b>	Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB.
<b>Tissue specificity</b>	Highest levels found in skeletal muscle. Also found in pancreas and heart.
<b>Sequence similarities</b>	Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Contains 4 ANK repeats.

## Images



**All lanes :** Anti-p18 INK4c/CDKN2C antibody [EPR15891] ([ab192239](#)) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** CDKN2C knockout HeLa cell lysate

**Lane 3 :** Rat Kidney cell lysate

**Lane 4 :** Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

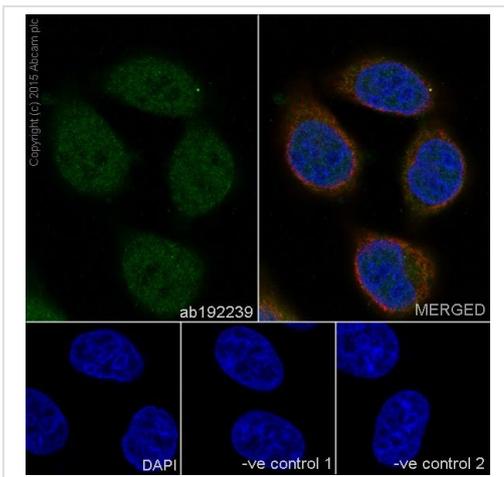
**Predicted band size:** 18 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab192239](#)).

**Lanes 1-4:** Merged signal (red and green). Green - [ab192239](#) observed at 18 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

[ab192239](#) Anti-p18 INK4c/CDKN2C antibody [EPR15891] was shown to specifically react with Cyclin Dependent Kinase Inhibitor 2C in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265031](#) (knockout cell lysate [ab257887](#)) was used. Wild-type and Cyclin Dependent Kinase Inhibitor 2C knockout

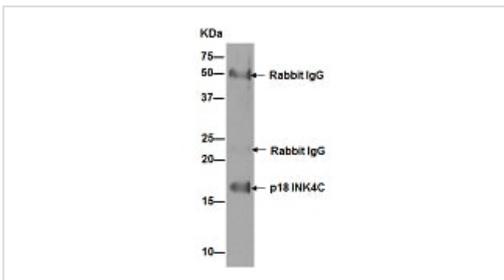
samples were subjected to SDS-PAGE. [ab192239](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free ([ab232631](#))

Immunofluorescent analysis of HeLa cells (4% Paraformaldehyde-fixed, 0.1% tritonX-100 permeabilized) labeling p18 INK4C/CDKN2C with [ab192239](#) at 1/100 dilution (5µg/mL) followed by Goat anti rabbit IgG (AlexaFluor® 488) ([ab150077](#)) secondary at 1/200 dilution and counter-stained with DAPI (blue).  
 Negative controls: anti-p18 INK4C/CDKN2C at 1/100 dilution, Secondary ab (Goat anti mouse IgG (Alexa Fluor®594)) at 1/400 dilution.

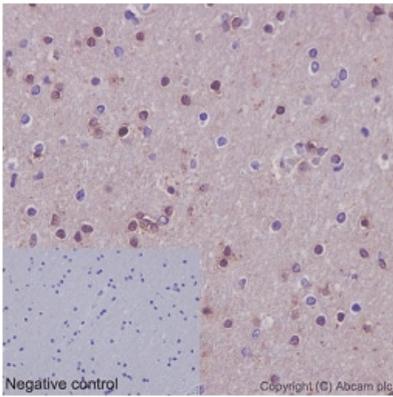
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192239](#)).



Immunoprecipitation - Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free ([ab232631](#))

Western blot analysis of immunoprecipitation pellet from HeLa lysate immunoprecipitated using [ab192239](#) at 1/30 dilution. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate 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 ([ab192239](#)).

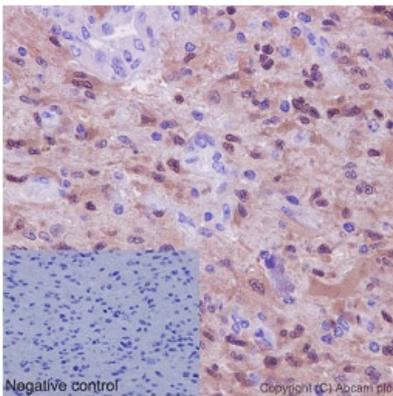


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free (ab232631)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling p18 INK4C/CDKN2C with [ab192239](#) at 1/50 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192239](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free (ab232631)

Immunohistochemical analysis of paraffin-embedded Human glioma tissue labeling p18 INK4C/CDKN2C with [ab192239](#) at 1/50 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab192239](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### 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-p18 INK4c/CDKN2C antibody [EPR15891] -  
BSA and Azide free (ab232631)

**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

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