

## 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. This information is proprietary to Abcam and/or its suppliers.
<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>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> 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>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

---

<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>	Ion Exchange Chromatography
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15891
<b>Isotype</b>	IgG

## Applications

---

**The Abpromise guarantee** 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
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
<b>ICC/IF</b>		Use at an assay dependent concentration.
<b>IP</b>		Use at an assay dependent concentration.

## Target

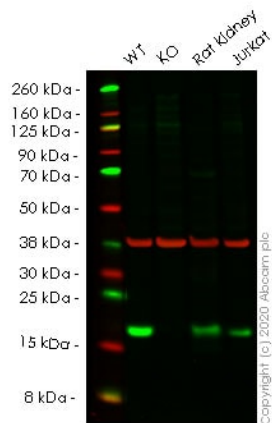
---

<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

---



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

**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.

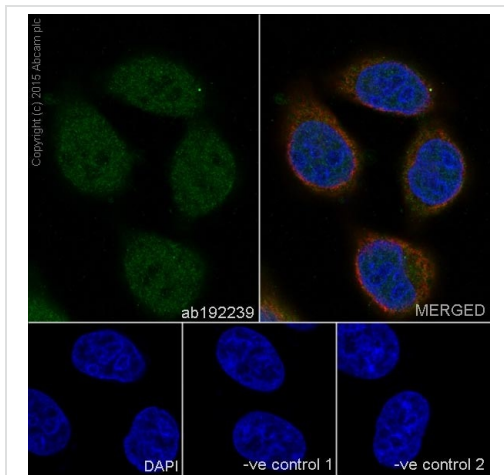
Performed under reducing conditions.

**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.

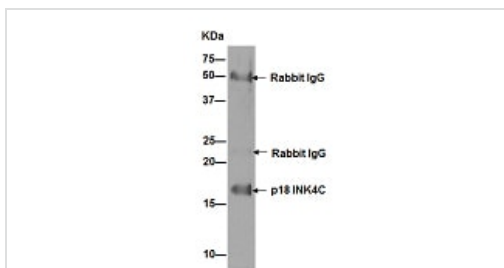
**ab192239** Anti-p18 INK4c/CDKN2C antibody [EPR15891] was shown to specifically react with Cyclin Dependent Kinase Inhibitor 2C in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265031** (knockout cell lysate **ab257887**) was used. Wild-type and Cyclin Dependent Kinase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

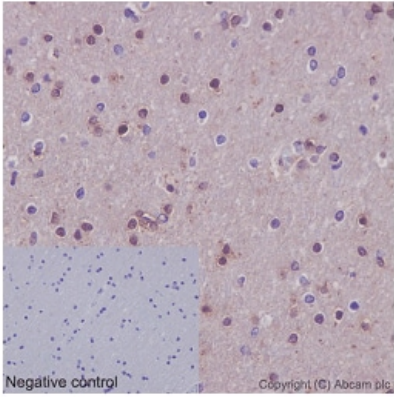
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab192239**).



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**).

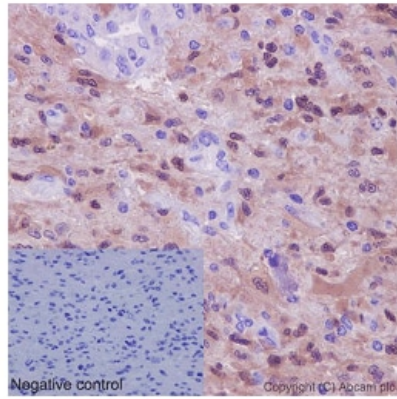


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p18 INK4c/CDKN2C antibody [EPR15891] - BSA and Azide free (ab232631)

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"

### 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.

### Terms and conditions

---

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