abcam

Product datasheet

Anti-p18 INK4c/CDKN2C antibody [EPR15891] ab192239

KO VALIDATED Recombinant RabMAb

14 References 8 Images

Overview

Product name	Anti-p18 INK4c/CDKN2C antibody [EPR15891]
Description	Rabbit monoclonal [EPR15891] to p18 INK4c/CDKN2C
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEL-293T, Ramos, HeLa, Jurkat, Rat kidney, Rat spleen and NIH 3T3 lysates. IHC-P: Human brain and glioma tissues; ICC/IF: HeLa cells.
General notes	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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Ion Exchange Chromatography
Clonality	Monoclonal
Clone number	EPR15891
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab192239 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		1/1000 - 1/10000. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).
IP		1/30.
ICC/IF		1/100.
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

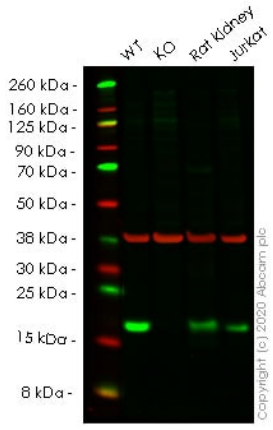
Target

Function Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB.

Tissue specificity Highest levels found in skeletal muscle. Also found in pancreas and heart.

Sequence similarities Belongs to the CDKN2 cyclin-dependent kinase inhibitor family.
Contains 4 ANK repeats.

Images



Western blot - Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239)

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.

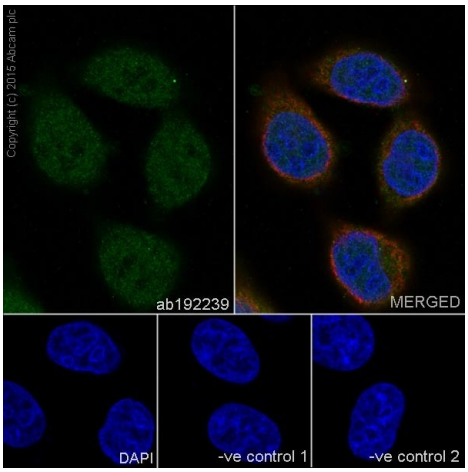
Performed under reducing conditions.

Predicted band size: 18 kDa

Lanes 1-4: Merged signal (red and green). Green - ab192239

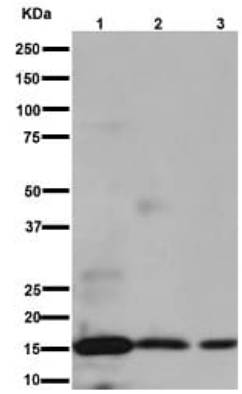
observed at 18 kDa. Red - loading control **ab8245** observed at 37 kDa.

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] (ab192239)

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.



Western blot - Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239)

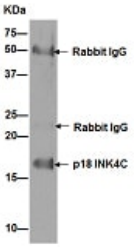
All lanes : Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239) at 1/1000 dilution

Lane 1 : Rat kidney lysate
Lane 2 : Rat spleen lysate
Lane 3 : NIH 3T3 lysate

Lysates/proteins at 10 µg per lane.

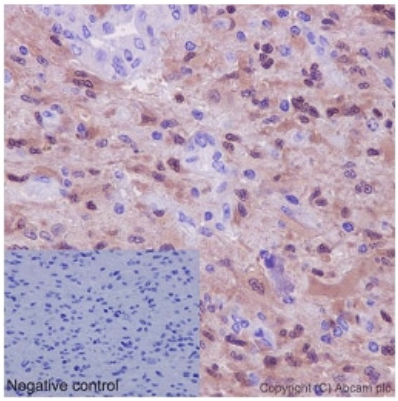
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 18 kDa



Immunoprecipitation - Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239)

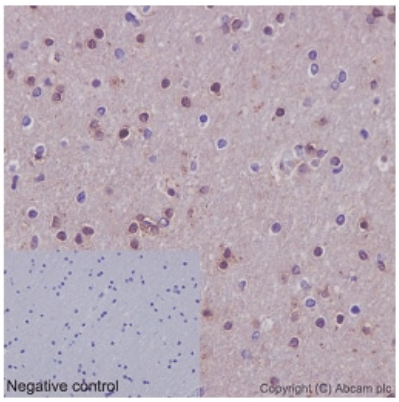
Western blot analysis of immunoprecipitation pellet from HeLa lysate immunoprecipitated using ab192239 at 1/30 dilution. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239)

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).

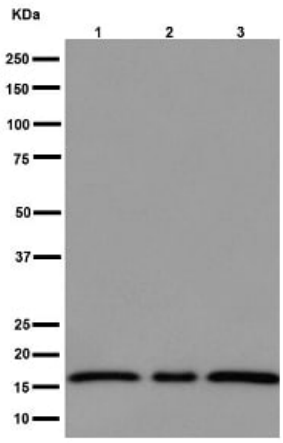
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239)

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).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239)

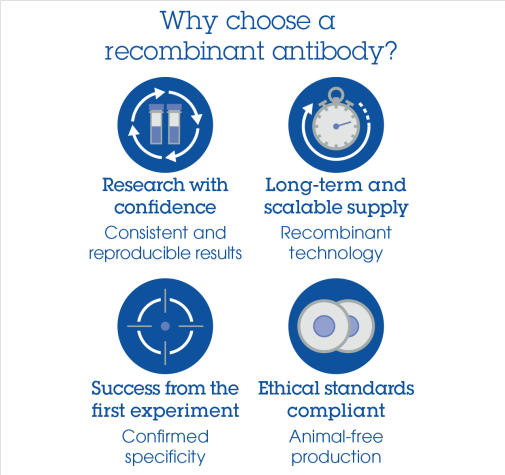
All lanes : Anti-p18 INK4c/CDKN2C antibody [EPR15891] (ab192239) at 1/10000 dilution

Lane 1 : 293 cell lysate
Lane 2 : Ramos cell lysate
Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 18 kDa



Anti-p18 INK4c/CDKN2C antibody [EPR15891]

(ab192239)

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