

## Product datasheet

# Anti-CDKN2A/p16INK4 $\alpha$ antibody [2D9A12] ab54210

★★★★☆ 11 Abreviews 28 References 6 Images

### Overview

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<b>Product name</b>	Anti-CDKN2A/p16INK4a antibody [2D9A12]
<b>Description</b>	Mouse monoclonal [2D9A12] to CDKN2A/p16INK4a
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ELISA, IHC-P <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human CDKN2A/p16INK4a. Database link: <a href="#">P42771</a>
<b>Positive control</b>	Rat liver tissue; Human brain tissue; Human brain tumor tissue; PFA/Tween HeLa cells.
<b>General notes</b>	We have received positive and negative feedback from customers for ICC/IF. ICC/IF is not a batch-tested application for this antibody and we are not able to cover it under our Abpromise guarantee.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 0.03% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2D9A12
<b>Isotype</b>	IgG2b

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab54210** 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
Flow Cyt		1/50. <a href="#">ab170192</a> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ELISA		1/10000.
IHC-P	★★★★★	1/200 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Recommended antigen retrieval: Place slides in a special glass slide holder and fill in the rack with slides to ensure even heating. Rinse rack in 1L of Citrate buffer in ordinary pressure cooker,(0.01M,pH6.0) to immerse all slides. Cover the cap and heat for 15-20 minutes on electric cooker until water boils. Begin timing, only 2 minutes in high-pressure Remove the pressure cooker, Allow it to cool(Cool the slides at room temperature) Rinse the slides in PBS for 5 minutes

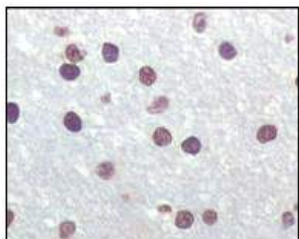
**Application notes** Is unsuitable for WB.

## Target

**Cellular localization** Cytoplasmic and Nuclear

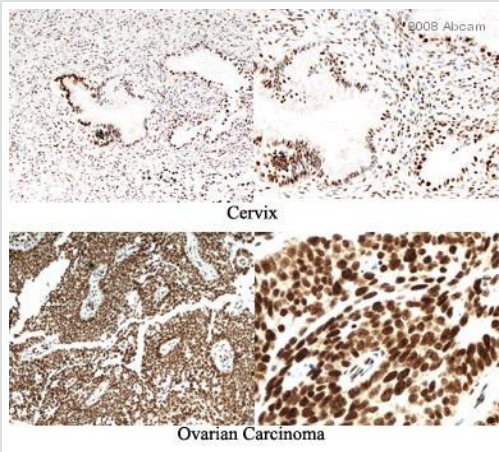
**Form** There are 4 isoforms produced by alternative splicing. Isoform 1 also known as: p16INK4a; Isoform 3 also known as: p12; Isoform 4 also known as: p14ARF; p19ARF; ARF.

## Images



[ab54210](#) (1:500) staining p16 INK4a in human brain tumor tissue by immunohistochemistry using paraffin embedded tissue. Nuclear staining (by DAB staining) is shown.

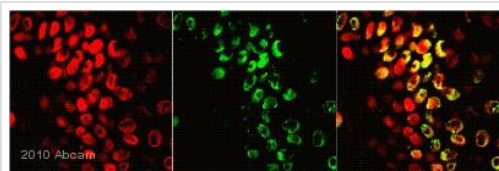
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [2D9A12] (ab54210)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [2D9A12] (ab54210)

Image is courtesy of an anonymous AbReview

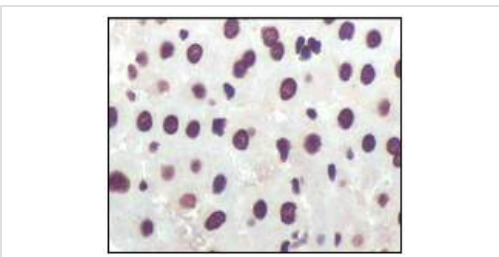
ab54210 staining CDKN2A/p16INK4a in Human cervix and ovarian carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/4000 in Dako diluent) for 20 minutes at 25°C. An undiluted HRP-conjugated Mouse polymer was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [2D9A12] (ab54210)

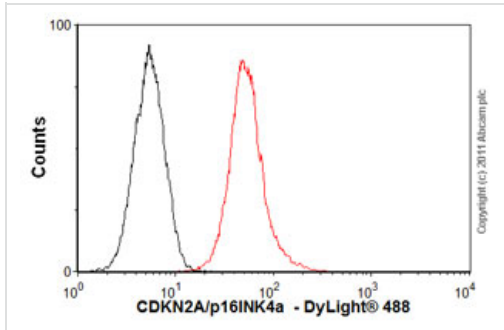
Image courtesy of an anonymous AbReview

ab54210 staining CDKN2A/p16INK4a in Human skin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 2% BSA for 1 hour at 22°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/100 in 1% NGS/TBS) for 20 hours at 4°C. Ab6785 (1/800) was used as the secondary antibody.



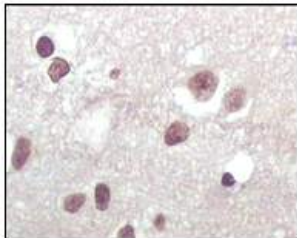
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [2D9A12] (ab54210)

ab54210 (1:500) staining p16 INK4a in rat liver tissue by immunohistochemistry using paraffin embedded tissue. Nuclear staining (by DAB staining) is shown.



Flow Cytometry - Anti-CDKN2A/p16INK4a antibody [2D9A12] (ab54210)

Overlay histogram showing HeLa cells stained with [ab54210](#) (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody ([ab54210](#), 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [2D9A12] (ab54210)

[ab54210](#) (1:500) staining p16 INK4a in human brain tissue by immunohistochemistry using paraffin embedded tissue. Nuclear staining (by DAB staining) is shown.

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