

# Anti-CDKN2A/p14ARF antibody ab3642

**18 References**   **画像数 3**

### 製品の概要

製品名	Anti-CDKN2A/p14ARF antibody
製品の詳細	Rabbit polyclonal to CDKN2A/p14ARF
由来種	Rabbit
アプリケーション	<b>適用あり:</b> IHC-P, ICC/IF
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	ICC/IF: HeLa cells. IHC-P: Lymphoma tissue.
特記事項	<p><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b></p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	<p>pH: 7.60</p> <p>Preservative: 0.1% Sodium azide</p> <p>Constituents: PBS, 1% BSA</p>
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

### アプリケーション

## The Abpromise guarantee

**Abpromise保証は、**次のテスト済みアプリケーションにおけるab3642の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 1 µg/ml.

## ターゲット情報

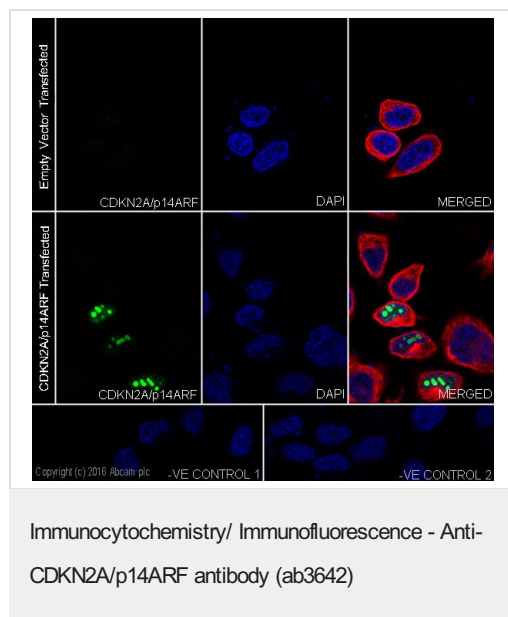
### 関連性

The gene for CDKN2A generates several transcripts/proteins which differ from each other in their first exons. Three of these transcripts are generated by alternative splicing (isoform 1 a.k.a p16INK4A, isoform 2 and isoform 3 a.k.a p12), two of which are known to function as inhibitors of CDK4 kinase. One other transcript that is generated from this gene contains an alternate reading frame (ARF), with the first exon located 20kb upstream of the remainder of the gene (isoform 4 a.k.a. p14ARF, p19ARF, ARF). In spite of the structural and some functional differences, all the proteins encoded by the CDKN2A gene are involved in cell cycle G1 control.

### 細胞内局在

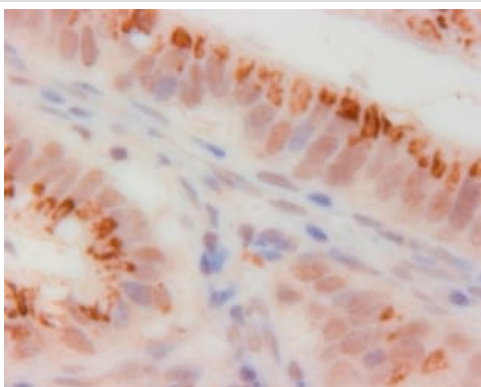
Cytoplasmic and Nuclear

## 画像



Confocal image showing nuclear staining increased after HeLa cells transfected with CDKN2A/p14ARF.

ICC/IF image of ab3642 stained HeLa cells. The cells were 4% paraformaldehyde fixed and then incubated in 0.1% trixtonX-100 to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with primary antibody ab3642 at a dilution of 1/250. An AlexaFluor®594 goat anti-mouse secondary IgG (**ab150077**) was used at a 1/1000 dilution. Anti-tubulin (**ab7291**) and an AlexaFluor®594 goat anti-mouse IgG (**ab150120**) were used as counterstains, both at a dilution of 1/1000. DAPI was used to stain the cell nuclei blue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p14ARF antibody (ab3642)

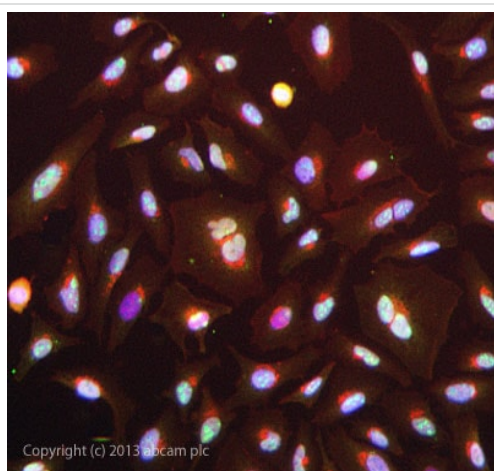
Image supplied as part of the review submitted by Joost van Galen.

Immunohistochemical analysis of human cervical adenocarcinomas tissue labelling p14 with ab3642 at 1/200 dilution in PBS/1% BSA. Staining was most prominent in the nuclei but other staining, most likely aspecific staining, was observed in apical vacuoles.

Dilutions of 1/100, 1/200 and 1/400 were tested.

1/100 dilution was a bit too weak and 1/400 gave too much background so in the end the dilution of 1/200 in PBS containing 1% BSA was used.

Several heat induced antigen retrieval methods were used (citrate and EDTA-Tris, both in microwave and autoclave).



Immunocytochemistry/ Immunofluorescence - Anti-CDKN2A/p14ARF antibody (ab3642)

ICC/IF image of ab3642 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab3642 at 1µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit ([ab96899](#)) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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