

## Product datasheet

# Anti-CDKN2A/p16INK4a antibody [DCS50.1] ab16123

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### 製品の概要

<b>製品名</b>	Anti-CDKN2A/p16INK4a antibody [DCS50.1]
<b>製品の詳細</b>	Mouse monoclonal [DCS50.1] to CDKN2A/p16INK4a
<b>由来種</b>	Mouse
<b>特異性</b>	This antibody shows no cross reactivity with the closely related inhibitors p15INK4b and p18INK4c.
<b>アプリケーション</b>	<b>適用あり:</b> ICC/IF, IHC-P, WB, IP, Flow Cyt
<b>種交差性</b>	<b>交差種:</b> Human
<b>免疫原</b>	Recombinant full length protein corresponding to Human CDKN2A/p16INK4a aa 1-156. Sequence:  MEPAAGSSMEPSADWLATAAARGRVEEVRALLEAGALPNAPNSYGRRIQ VMMGVSARVAELLLLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLHRA GARLDVRDAWGRLPVDLAEELGHRDVARYLRAAAGGTRGSNHARIDAAEG PSDIPD  Database link: <a href="#">P42771</a>  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>ポジティブ・コントロール</b>	WB: HEK293 and HeLa cell lysates. Flow cyt: HEK293 cells. IHC-P: Bladder tumor tissue.

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</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>バッファー</b>	Preservative: 0.08% Sodium azide Constituent: 99.9% PBS
<b>精製度</b>	Protein A/G purified
<b>ポリ/モノ</b>	モノクローナル
<b>クローン名</b>	DCS50.1
<b>アイソタイプ</b>	IgG1

## アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab16123** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P		Use a concentration of 10 µg/ml.
WB	★★★★☆	Use at an assay dependent concentration. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
IP		Use at an assay dependent concentration. ab16123 co-precipitates cdk4/cdk6.
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## ターゲット情報

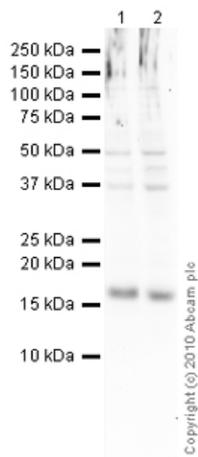
### 細胞内局在

Cytoplasmic and Nuclear

### 製品の状態

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.

## 画像



Western blot - Anti-CDKN2A/p16INK4a antibody [DCS50.1] (ab16123)

**All lanes :** Anti-CDKN2A/p16INK4a antibody [DCS50.1] (ab16123) at 1 µg/ml

**Lane 1 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2 :** HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

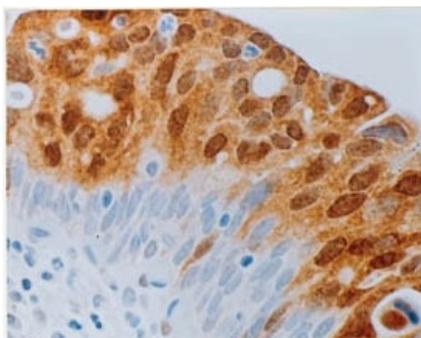
Performed under reducing conditions.

**Predicted band size:** 16 kDa

**Observed band size:** 16 kDa

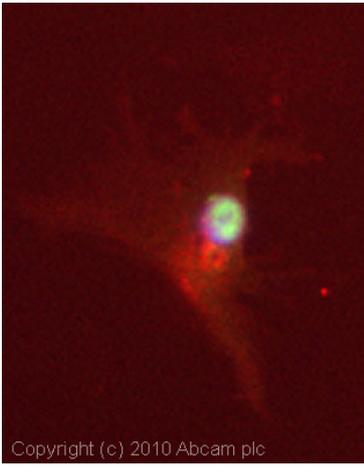
**Additional bands at:** 37 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 12 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [DCS50.1] (ab16123)

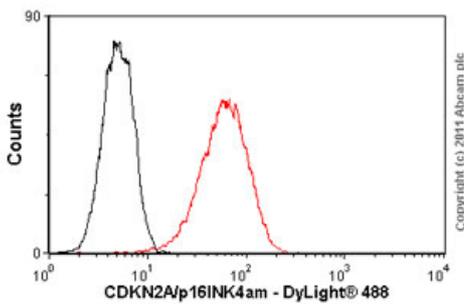
Immunohistochemical analysis of formalin-fixed, paraffin-embedded bladder tumor tissue labelling CDKN2A/p16INK4a with ab16123 at 10µg/ml.



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Immunocytochemistry/ Immunofluorescence - Anti-CDKN2A/p16INK4a antibody [DCS50.1] (ab16123)

ICC/IF image of ab16123 stained Hepp 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 (ab16123, 1 µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) [ab150113](#)) used at a 1/1000 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.



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Flow Cytometry - Anti-CDKN2A/p16INK4a antibody [DCS50.1] (ab16123)

Overlay histogram showing HEK293 cells stained with ab16123 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab16123, 1 µg/1x10<sup>6</sup> cells ) 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 IgG1 [ICIGG1] ([ab91353](#), 2 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 100% methanol used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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