

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

★★★★☆ [2 Abreviews](#) [9 References](#) [5 图像](#)

### 概述

<b>产品名称</b>	Anti-CDKN2A/p16INK4a抗体[DCS50.1]
<b>描述</b>	小鼠单克隆抗体[DCS50.1] to CDKN2A/p16INK4a
<b>宿主</b>	Mouse
<b>特异性</b>	This antibody shows no cross reactivity with the closely related inhibitors p15INK4b and p18INK4c.
<b>经测试应用</b>	<b>适用于:</b> ICC/IF, IHC-P, WB, Flow Cyt
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Recombinant full length protein corresponding to Human CDKN2A/p16INK4a aa 1-156. Sequence: MEPAAGSSMEPSADWLATAAARGRVEEV RALLEAGALPNAPN SYGRRPIQ VMMMGSARVAELLLLHGAEPNCADPATLTRPVHDAAREGFLD TLVVLHRA GARLDVRDAWGRLPVDLAEELGHRDVARYLRAAAGGTRGSNH ARIDAAEG PSDIPD  Database link: <a href="#">P42771</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>阳性对照</b>	WB: HEK-293 and HeLa cell lysates; Flow cyt: HEK-293 cells; IHC-P: Bladder tumor tissue, HPV-infected preneoplastic lesion in human uterine cervix; ICC/IF: Hepp cells.
<b>常规说明</b>	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.  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&As

### 性能

<b>形式</b>	Liquid
<b>存放说明</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.

**存储溶液**

Preservative: 0.08% Sodium azide

Constituent: 99.9% PBS

**纯度**

Protein A/G purified

**克隆**

单克隆

**克隆编号**

DCS50.1

**同种型**

IgG1

**应用**

**The Abpromise guarantee**

**Abpromise™** 承诺保证使用ab16123于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★☆ (1)	Use at an assay dependent concentration. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

**靶标**

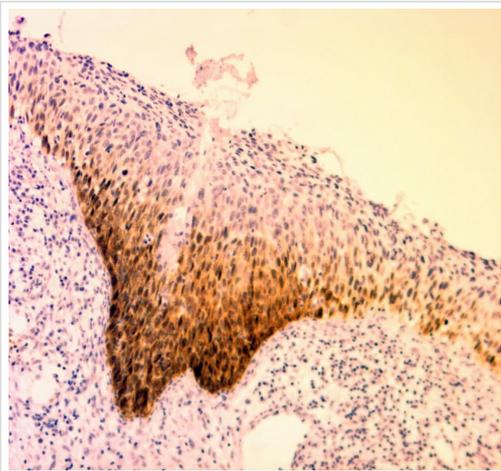
**细胞定位**

Cytoplasmic and Nuclear

**形式**

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.

**图片**



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

Immunohistochemical analysis of formalin-fixed, paraffin-embedded, HPV-infected, preneoplastic lesion in human uterine cervix tissue labelling CDKN2A/p16INK4a with ab16123. Antigen retrieval was performed with Tris/EDTA buffer pH 9.



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.

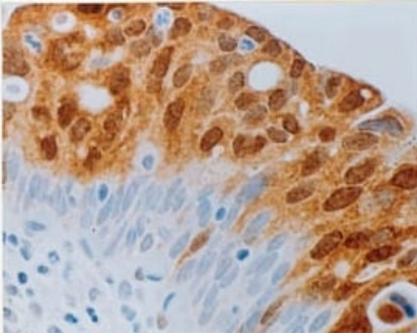
Performed under reducing conditions.

**Predicted band size:** 16 kDa

**Observed band size:** 16 kDa

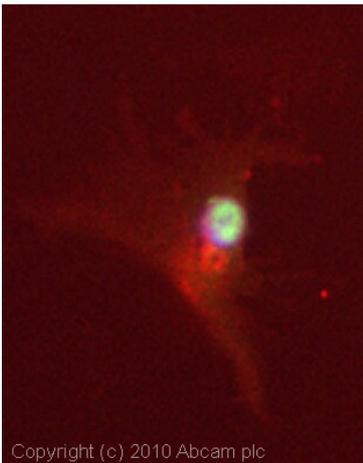
**Additional bands at:** 37 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 12 minutes



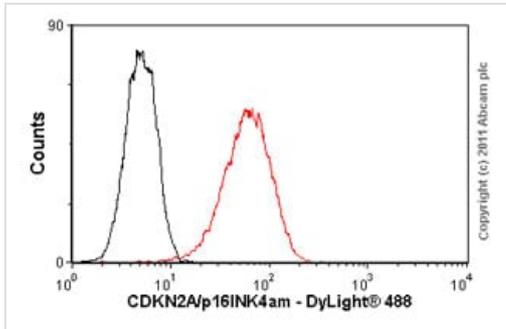
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDKN2A/p16INK4a antibody [DCS50.1] (ab16123)

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



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, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor<sup>®</sup> 488 goat anti-mouse IgG (H+L) **ab150113** used at a 1/1000 dilution for 1h. Alexa Fluor<sup>®</sup> 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.



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, 1µg/1x10<sup>6</sup> cells ) for 30 min at 22°C. The secondary antibody used was DyLight<sup>®</sup> 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**, 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 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.

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