

## Product datasheet

# Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] ab40803

Recombinant RabMAb

[2 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y]
<b>Description</b>	Rabbit monoclonal [EP435Y] to CDKN2A/p16INK4A +CDKN2B/p15INK4B
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP <b>Unsuitable for:</b> ICC/IF or IHC
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: 293 cell lysate, human CDKN2A full-length recombinant protein with His-tag, Human CDKN2B full-length recombinant protein with GST-tag Flow Cyt (intra): HEK-293 cells IP: HeLa cell lysate
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

	supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP435Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab40803 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

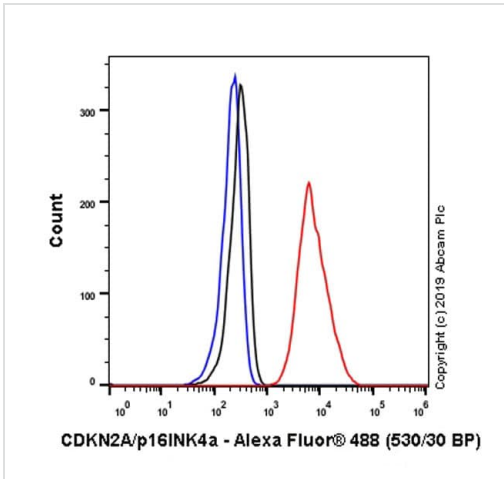
Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		1/100. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>WB</b>		1/500 - 1/2000. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa).
<b>IP</b>		1/50.

**Application notes** Is unsuitable for ICC/IF or IHC.

## Target

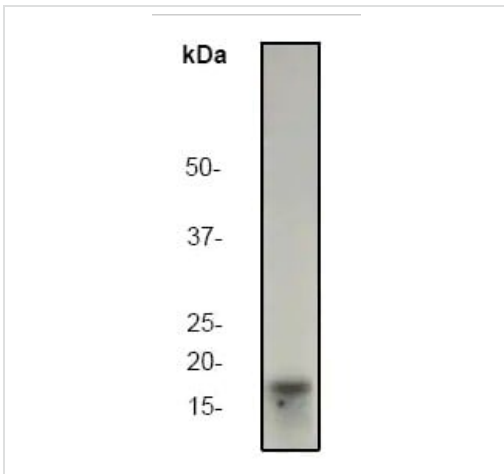
<b>Function</b>	Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.
<b>Tissue specificity</b>	Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific.
<b>Involvement in disease</b>	The association between cutaneous and uveal melanomas in some families suggests that mutations in CDKN2A may account for a proportion of uveal melanomas. However, CDKN2A mutations are rarely found in uveal melanoma patients. Melanoma, cutaneous malignant 2 Familial atypical multiple mole melanoma-pancreatic carcinoma syndrome Melanoma-astrocytoma syndrome
<b>Sequence similarities</b>	Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Contains 4 ANK repeats.
<b>Post-translational modifications</b>	Phosphorylation seems to increase interaction with CDK4.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

## Images



Intracellular Flow Cytometry analysis of HEK-293 (Human embryonic kidney epithelial cell) cells labeling CDKN2A/p16INK4a with purified ab40803 at 1/100 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cells without incubation with primary antibody and secondary antibody (Blue).

Flow Cytometry (Intracellular) - Anti-CDKN2A/p16INK4a + CDKN2B/p15INK4B antibody [EP435Y] (ab40803)



Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803) at 1/1000 dilution + 293 cell lysate

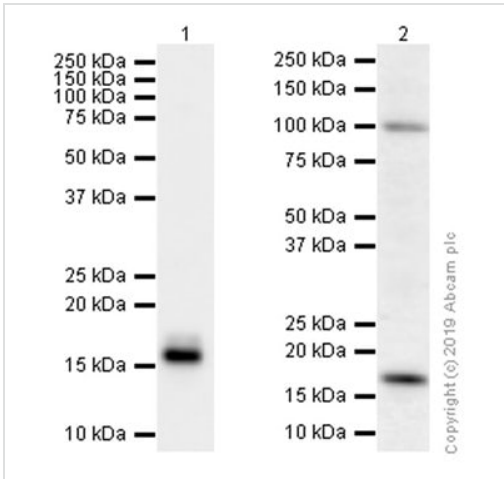
**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#))

**Predicted band size:** 17 kDa

**Observed band size:** 17 kDa

Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803)



Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803)

**All lanes :** Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803) at 1/1000 dilution

**Lane 1 :** HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

**Lane 2 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 17 kDa

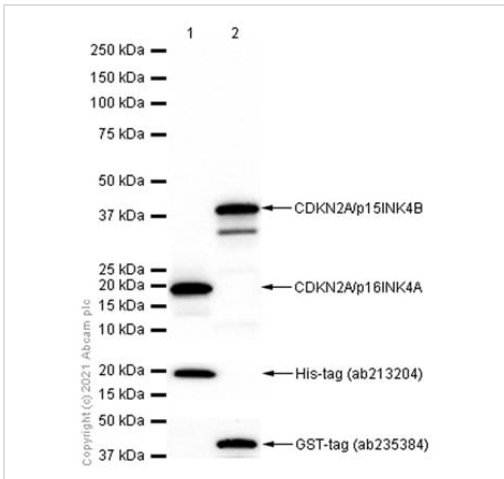
**Observed band size:** 17 kDa

5% NFDm/TBST was used as a blocking and diluting buffer.

Exposure times:

Lane 1: 20 seconds

Lane 2: 180 seconds



Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803)

**All lanes :** Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803) at 1/10000 dilution

**Lane 1 :** Human CDKN2A full-length recombinant protein with His-tag

**Lane 2 :** Human CDKN2B full-length recombinant protein with GST-tag

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

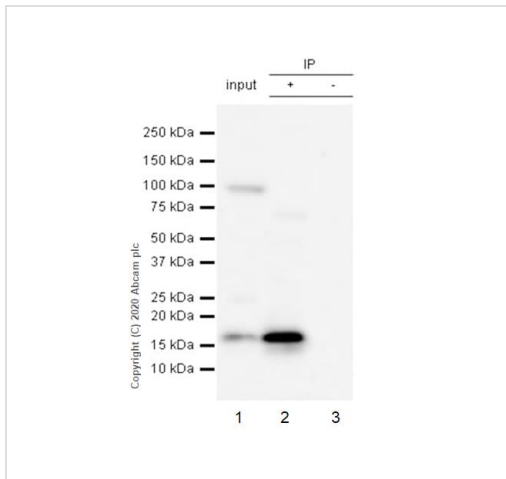
**Predicted band size:** 17 kDa

**Observed band size:** 17, 40 kDa

**Exposure time:** 10 seconds

5% NFDm/TBST was used as a blocking and diluting buffer.

Lysate/proteins at 0.01 µg per lane.



Immunoprecipitation - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803)

Purified ab40803 at 1/50 dilution (2µg) immunoprecipitating CDKN2A/p16INK4a in HeLa whole cell lysate.

Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab40803 + HeLa whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab40803 in HeLa whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 17 kDa

Why choose a recombinant antibody?

- Research with confidence**  
Consistent and reproducible results
- Long-term and scalable supply**  
Recombinant technology
- Success from the first experiment**  
Confirmed specificity
- Ethical standards compliant**  
Animal-free production

Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors