

Product datasheet

Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] α b40803

Recombinant RabMAb

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

Overview

Product name	Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y]
Description	Rabbit monoclonal [EP435Y] to CDKN2A/p16INK4A +CDKN2B/p15INK4B
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP Unsuitable for: ICC/IF or IHC
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	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
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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

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

	supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP435Y
Isotype	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.

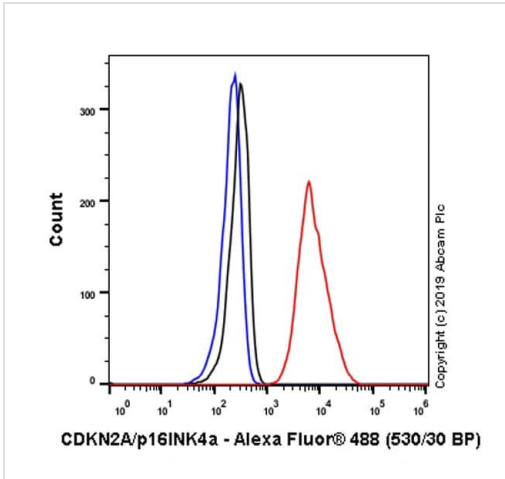
Application	Abreviews	Notes
Flow Cyt (Intra)		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa).
IP		1/50.

Application notes Is unsuitable for ICC/IF or IHC.

Target

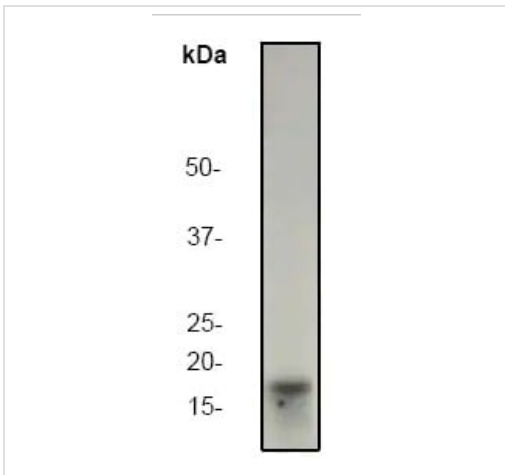
Function	Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.
Tissue specificity	Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific.
Involvement in disease	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
Sequence similarities	Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Contains 4 ANK repeats.
Post-translational modifications	Phosphorylation seems to increase interaction with CDK4.
Cellular localization	Cytoplasm. Nucleus.

Images



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

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).



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

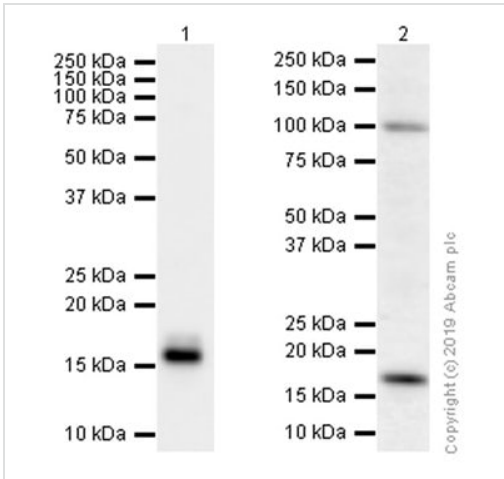
Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y] (ab40803) at 1/1000 dilution + 293 cell lysate at 10 µg

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)

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

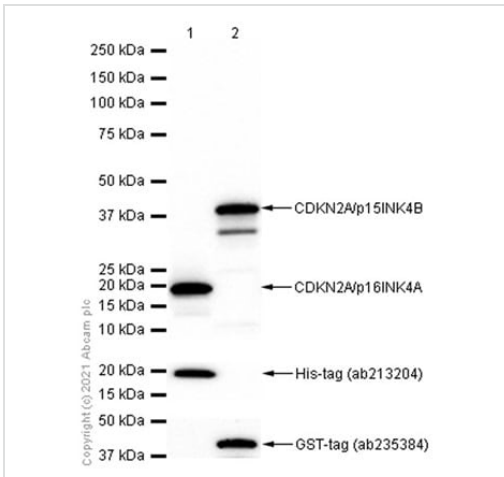
Observed band size: 17 kDa

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

Lysates/proteins at 0.01 µg per lane.

Secondary

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

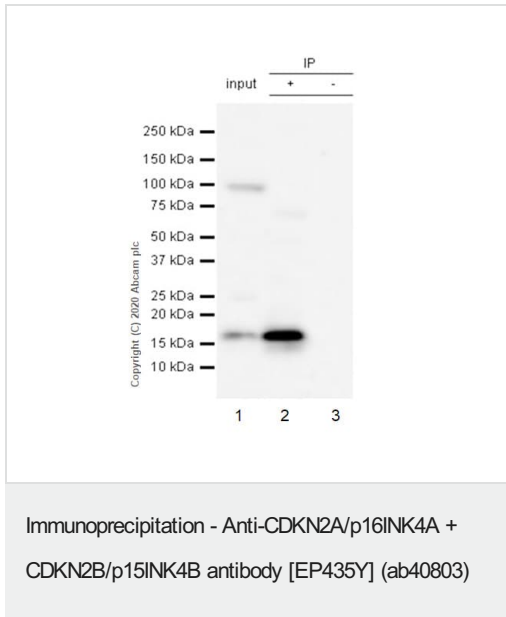
Predicted band size: 17 kDa

Observed band size: 17, 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.



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"

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