abcam

ab81278

Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Tissue culture supernatant, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EP435Y-129R
Purification technique	Affinity purification Protein A
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/2000
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information CDKN2A

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.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

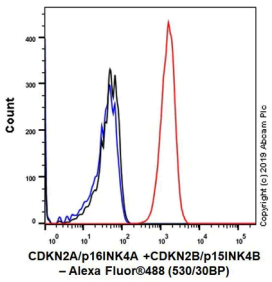
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

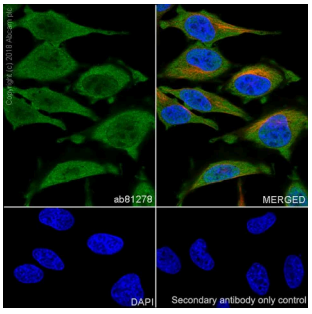
6 product images



Flow Cytometry (Intracellular) - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278)

CDKN2A/p16INK4A + CDKN2B/p15INK4B Flow Cytometry (Intracellular) staining using rabbit Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody

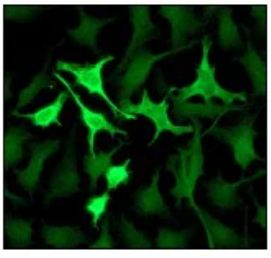
Flow cytometric analysis of 4% paraformaldehyde fixed and 90% methanol permeabilised HEK-293 (Human embryonic kidney epithelial cell) with ab81278 at 1/20 dilution (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278)

CDKN2A/p16INK4A + CDKN2B/p15INK4B Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody

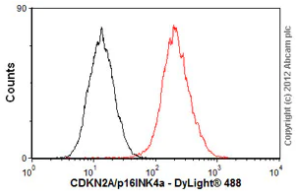
Immunofluorescent analysis of 4% Paraformaldehyde fixed 0.1% Triton X-100 permeabilised HeLa (human cervix adenocarcinoma epithelial cell) labelling CDKN2A/p16INK4a with ab81278 at 1/250 dilution, followed by AlexaFluor® 488 Goat anti-Rabbit secondary antibody (ab150077) at 1/1000 dilution (green). Confocal image showing cytoplasmic and nuclear staining in HeLa is observed. Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) was used to counterstain alpha Tubulin at 1/200 dilution (red). The Nuclear counterstain was DAPI (blue). **Secondary antibody only control:** Secondary antibody is AlexaFluor® 488 Goat anti-Rabbit secondary antibody (ab150077) at 1/1000 dilution (green).



Immunocytochemistry - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278)

CDKN2A/p16INK4A + CDKN2B/p15INK4B Immunocytochemistry staining using rabbit Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody

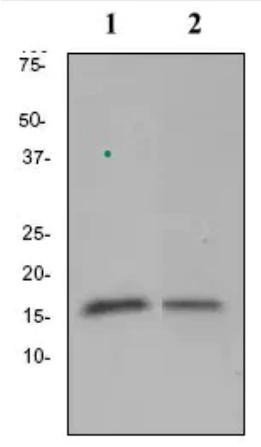
Immunofluorescent staining of HeLa cells using 1/100 ab81278



Flow Cytometry (Intracellular) - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278)

CDKN2A/p16INK4A + CDKN2B/p15INK4B Flow Cytometry (Intracellular) staining using rabbit Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody

Overlay histogram showing HEK293 cells stained with ab81278 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab81278, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278)

CDKN2A/p16INK4A + CDKN2B/p15INK4B Western blot staining using rabbit Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody

All lanes:
Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278) at 1/20000 dilution

Lane 1:
HeLa cell lysate at 10 µg

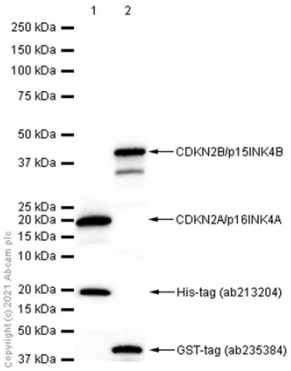
Lane 2:
293 cell lysate at 10 µg

Secondary

All lanes:
HRP labeled goat anti rabbit at 1/2000 dilution

Predicted band size: 17 kDa

Observed band size: 17 kDa



Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278)

5% NFDM/TBST was used as blocking and iluting buffer.
All lanes:
Western blot - Anti-CDKN2A/p16INK4A + CDKN2B/p15INK4B antibody [EP435Y-129R] (ab81278) at 1/1000 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:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 17 kDa

Observed band size: 17 kDa, 40 kDa

Exposure time: 10s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.