Product datasheet

Anti-CDKN2A/p16INK4a antibody [EPR1473] - C-terminal ab108349

Overview

Product name: Anti-CDKN2A/p16INK4a antibody [EPR1473] - C-terminal
Description: Rabbit monoclonal [EPR1473] to CDKN2A/p16INK4a - C-terminal
Host species: Rabbit
Tested applications: Suitable for: WB, IP, IHC-P, Flow Cyt, ICC/IF
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide within Human CDKN2A/p16INK4a aa 100 to the C-terminus (C terminal). The exact sequence is proprietary.
Database link: P42771
General notes: A trial size is available to purchase for this antibody.

Abcam recommended secondaries - Goat Anti-Rabbit HRP (ab205718) and Goat Anti-Rabbit Alexa Fluor® 488 (ab150077).

See other anti-rabbit secondary antibodies that can be used with this antibody.

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.
Avoid freeze / thaw cycle.

Storage buffer
- pH: 7.20
- Preservative: 0.01% Sodium azide
- Constituents: 40% Glycerol, PBS, 0.05% BSA

Purity
- Protein A purified

Clonality
- Monoclonal

Clone number
- EPR1473

Isotype
- IgG

Applications

Our Abpromise guarantee covers the use of ab108349 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td></td>
<td>1/30. For unpurified use at 1/10 - 1/100.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★☆</td>
<td>1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols. For unpurified use at 1/250 - 1/500.</td>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/270 - 1/500. For unpurified use at 1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/270. For unpurified use at 1/100 - 1/250.</td>
</tr>
</tbody>
</table>

Target

Cellular localization
- Cytoplasmic and Nuclear

Form
- 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.
 Formalin-fixed, paraffin-embedded human normal breast, luminal-A DCIS (ductal carcinoma in situ) and triple negative breast cancer tissues stained for CDKN2A/p16INK4a using ab108349 in immunohistochemical analysis.

All lanes: Anti-CDKN2A/p16INK4a antibody [EPR1473] - C-terminal (ab108349) at 1/1000 dilution (unpurified)

Lane 1: HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate
Lane 2: HEK-293T (Human epithelial cell line from embryonic kidney) cell lysate
Lane 3: Saos-2 (Human osteosarcoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 17 kDa
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervix carcinoma tissue labeling CDKN2A/p16INK4a with purified ab108349 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, an HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling CDKN2A/p16INK4a with unpurified ab108349 at a dilution of 1/100.

Overlay histogram showing HEK-293 (Human epithelial cell line from embryonic kidney) cells stained with unpurified ab108349 (red line). The cells were fixed with 4% paraformaldehyde (10 minutes) and then permeabilized with 0.1% PBS-Tween for 20 minutes. 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 (ab108349, 1/100) for 30 minutes at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 minutes at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK-293 cells fixed with 80% methanol (5 minutes)/permeabilized with 0.1% PBS-Tween for 20 minutes used under the same conditions.
All lanes: Anti-CDKN2A/p16INK4a antibody [EPR1473] - C-terminal (ab108349) at 1/2000 dilution (purified)

Lane 1: HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate
Lane 2: Saos-2 (Human osteosarcoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 17 kDa
Observed band size: 17 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Anti-CDKN2A/p16INK4a antibody [EPR1473] - C-terminal (ab108349) at 1/2000 dilution (purified) + HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate at 10 µg

Secondary
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 17 kDa
Observed band size: 17 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervical carcinoma tissue labeling CDKN2A/p16INK4a with unpurified ab108349 at a dilution of 1/250.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ab108349 (purified) at 1/30 immunoprecipitating CDKN2A/p16INK4a in HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking/Dilution buffer: 5% NFDM/TBST.

Flow Cytometry analysis of HEK-293 (Human epithelial cell line from embryonic kidney) cells labeling CDKN2A/p16INK4a with purified ab108349 at 1/270 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabeled control, cells without incubation with primary and secondary antibodies.

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

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