

Product datasheet

Anti-PARP1 antibody ab226978

3 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-PARP1 antibody |
| Description | Rabbit polyclonal to PARP1 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide within Human PARP-1 (internal sequence). The exact sequence is proprietary. Recognises both PARP-1 and cleaved Asp214. Database link: P09874 |
| Positive control | WB: HEK-293T non-transfected and PARP1 shRNA transfected cell lysates; Cisplatin treated HCT 116 cell lysate. ICC/IF: HeLa cells. |

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 long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 20% Glycerol |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab226978** 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 |
|-------------|-----------|--|
| WB | | 1/500 - 1/3000. Predicted molecular weight: 113 kDa. |

| Application | Abreviews | Notes |
|-------------|-----------|-----------------|
| ICC/IF | | 1/100 - 1/1000. |

Target

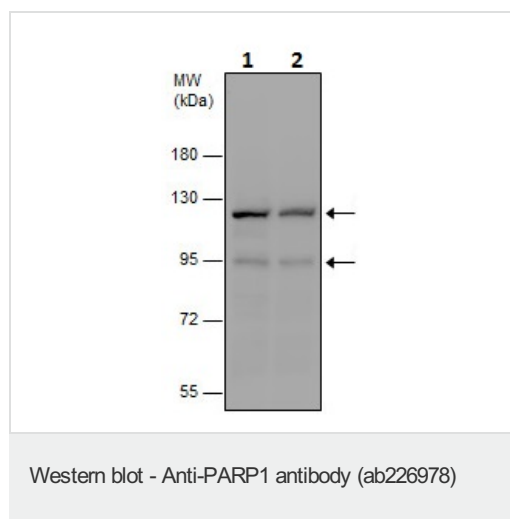
Function Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. Mediates the poly(ADP-ribosyl)ation of APLF and CHFR. Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150.

Sequence similarities Contains 1 BRCT domain.
Contains 1 PARP alpha-helical domain.
Contains 1 PARP catalytic domain.
Contains 2 PARP-type zinc fingers.

Post-translational modifications Phosphorylated by PRKDC. Phosphorylated upon DNA damage, probably by ATM or ATR. Poly-ADP-ribosylated by PARP2. Poly-ADP-ribosylation mediates the recruitment of CHD1L to DNA damage sites.
S-nitrosylated, leading to inhibit transcription regulation activity.

Cellular localization Nucleus.

Images



All lanes : Anti-PARP1 antibody (ab226978) at 1/3000 dilution

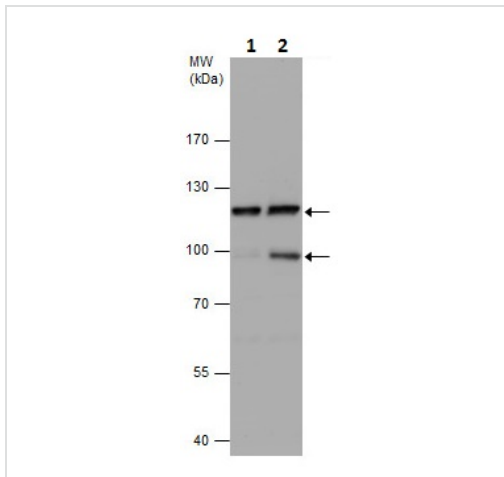
Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with PARP1 shRNA, cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 113 kDa

7.5% SDS-PAGE gel.



Western blot - Anti-PARP1 antibody (ab226978)

All lanes : Anti-PARP1 antibody (ab226978) at 1/1000 dilution

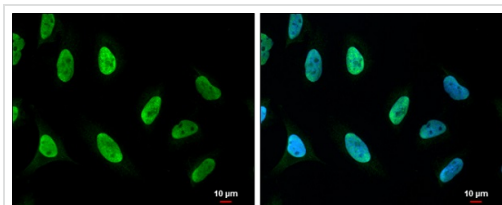
Lane 1 : HCT 116 (human colorectal carcinoma cell line) cell lysate

Lane 2 : HCT 116 (human colorectal carcinoma cell line) treated with 30 μM cisplatin for 24 hours, cell lysate

Lysates/proteins at 30 μg per lane.

Predicted band size: 113 kDa

7.5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-PARP1 antibody (ab226978)

4% paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for PARP1 (green) using ab226978 at 1/500 dilution in ICC/IF. Nuclear Counterstain: Hoechst 33342 (blue).

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