abcam

Product datasheet

Anti-PARP1 antibody [EPR18461] - BSA and Azide free ab222234



Recombinant

RabMAb

1 Abreviews 6 Images

Overview

Product name Anti-PARP1 antibody [EPR18461] - BSA and Azide free

Description Rabbit monoclonal [EPR18461] to PARP1 - BSA and Azide free

Host species Rabbit

Tested applications

Suitable for: IHC-P, ICC/IF, WB

Species reactivity

Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: HeLa and NIH/3T3 whole cell lysates; Human fetal heart and fetal kidney lysates; Mouse

heart lysate; Rat brain and heart lysates. IHC-P: Human, mouse and rat testis tissues. ICC/IF:

HeLa and NIH/3T3 cells.

General notes ab222234 is the carrier-free version of **ab191217**.

Our <u>carrier-free</u> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency

increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

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 production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

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Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.2

Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal Clone number EPR18461

Isotype lgG

Applications

Our **Abpromise guarantee** covers the use of ab222234 in the following tested applications. The Abpromise guarantee

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 113, 89, 55 kDa (predicted molecular weight: 113 kDa).

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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.

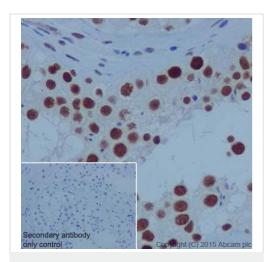
Post-translational

Phosphorylated by PRKDC. Phosphorylated upon DNA damage, probably by ATM or ATR. modifications

Poly-ADP-ribosylated by PARP2. Poly-ADP-ribosylation mediates the recruitment of CHD1L to

DNA damage sites.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-PARP1 antibody

[EPR18461] - BSA and Azide free (ab2222234)

Secondary antibody only control Copyright (C) 2015 Abcam plc

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-PARP1 antibody

[EPR18461] - BSA and Azide free (ab222234)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling PARP1 with <u>ab191217</u> at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

Nucleus staining on epithelial cells and stromal cells of Human testis is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191217).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling PARP1 with <u>ab191217</u> at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

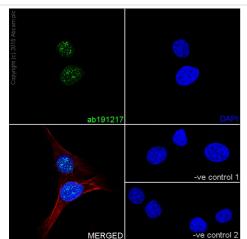
Nucleus staining on epithelial cells and stromal cells of mouse testis is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191217).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PARP1 antibody [EPR18461] - BSA and Azide free (ab222234)

Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cells) cells labeling PARP1 with ab191217 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on NIH/3T3 cell line. The

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1%

nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb (ab7291) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab191217 at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb (ab7291) at 1/1000 dilution, followed by Goat Anti-Rabbit lgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191217).

ab191217

Immunocytochemistry/ Immunofluorescence - Anti-PARP1 antibody [EPR18461] - BSA and Azide free (ab222234)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling PARP1 with ab191217 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear staining on HeLa cell line. The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb (ab7291) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor[®] 594) (ab150120) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab191217 at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (ab150120) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb (ab7291) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191217).

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling PARP1 with <u>ab191217</u> at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

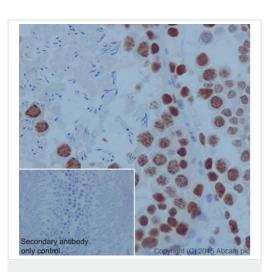
Nucleus staining on epithelial cells and stromal cells of rat testis is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/500 dilution.

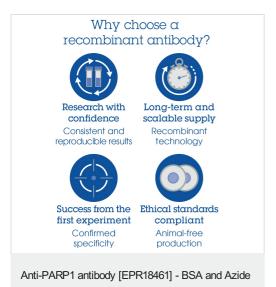
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab191217).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-PARP1 antibody

[EPR18461] - BSA and Azide free (ab2222234)



free (ab222234)

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