abcam

Product datasheet

Anti-PARP1 antibody ab194586

★★★★★ 1 Abreviews 15 References 7 Images

Overview

Product name	Anti-PARP1 antibody
Description	Rabbit polyclonal to PARP1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PARP1 aa 150-250. The exact sequence is proprietary. Database link: **P09874**
Positive control	WB: Extracts from A549, Jurkat, HeLa, K562, Raji, HepG2 and Y79 cell lines. Mouse testis lysate. ICC/IF: NIH/3T3 and U-2 OS cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab194586 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
IHC-P		1/20 - 1/50.
WB	★★★★★ (1)	1/1000 - 1/2000. Predicted molecular weight: 113 kDa.
ICC/IF		1/50 - 1/100.

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.

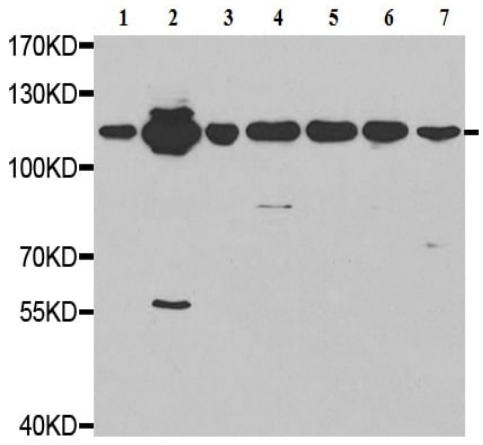
Post-translational modifications

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



Western blot - Anti-PARP1 antibody (ab194586)

All lanes : Anti-PARP1 antibody (ab194586) at 1/1000 dilution

Lane 1 : Extract from A549 (Human lung carcinoma cell line) cell line

Lane 2 : Extract from Jurkat (Human T cell leukemia cell line from peripheral blood) cell line

Lane 3 : Extract from Hela (Human epithelial cell line from cervix adenocarcinoma) cell line

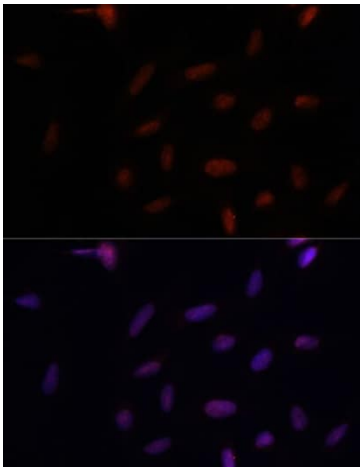
Lane 4 : Extract from K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell line

Lane 5 : Extract from Raji (Human Burkitt's lymphoma cell line) cell line

Lane 6 : Extract from HepG2 (Human liver hepatocellular carcinoma cell line) cell line

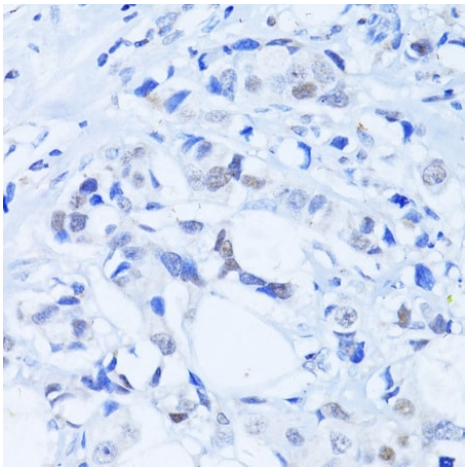
Lane 7 : Extract from Y79 (Human retinoblastoma cell line) cell line

Predicted band size: 113 kDa



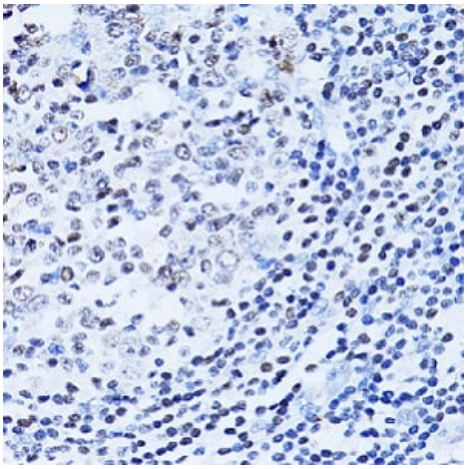
Immunocytochemistry/ Immunofluorescence - Anti-PARP1 antibody (ab194586)

U-2 OS (Human bone osteosarcoma epithelial cell line) cells stained for PARP1 using ab194586 at a dilution of 1/100 in ICC/IF. Blue: DAPI for nuclear staining.



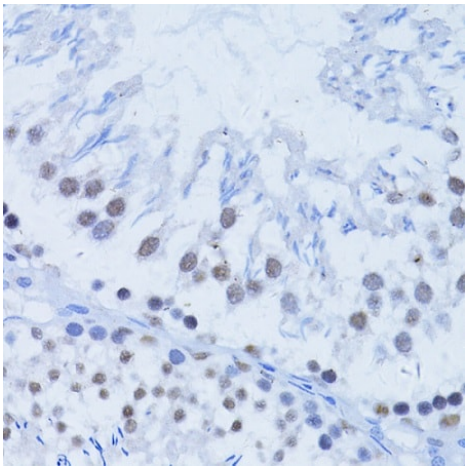
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARP1 antibody (ab194586)

Immunohistochemistry of Human breast cancer tissue staining PARP1 with ab194586



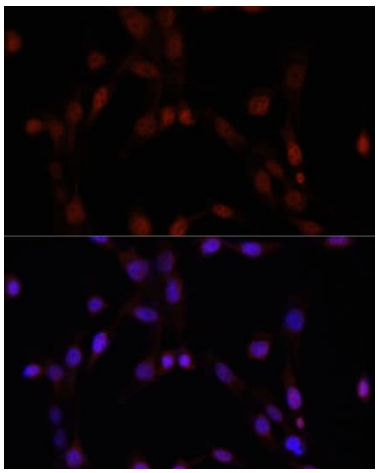
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARP1 antibody (ab194586)

Immunohistochemistry of Human appendix tissue staining PARP1 with ab194586



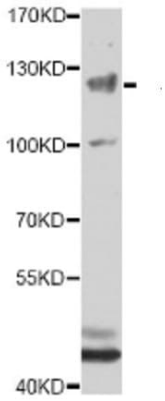
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARP1 antibody (ab194586)

Immunohistochemistry of rat testis tissue staining PARP1 with ab194586



Immunocytochemistry/ Immunofluorescence - Anti-PARP1 antibody (ab194586)

NIH-3T3 (Mouse embryo fibroblast cell line) cells stained for PARP1 using ab194586 at a dilution of 1/100 in ICC/IF. Blue: DAPI for nuclear staining.



Western blot - Anti-PARP1 antibody (ab194586)

Anti-PARP1 antibody (ab194586) at 1/1000 dilution + Mouse testis lysate at 25 µg

Secondary
HRP Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Developed using the ECL technique.

Predicted band size: 113 kDa

Exposure time: 90 seconds

Blocking buffer: 3% non-fat dry milk in TBST.

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