

Product datasheet

Anti-PARP1 antibody ab176491

Overview

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|----------------------------|---|
| Product name | Anti-PARP1 antibody |
| Description | Rabbit Polyclonal to PARP1 |
| Host species | Rabbit |
| Tested applications | Suitable for: ICC, Neutralising, WB, IP |
| Species reactivity | Reacts with: Mouse, Rat, Cow, Human, Monkey |
| Immunogen | <p>Full length native protein (purified) corresponding to Cow PARP1. Sequence:</p> <p>MAESSDKLYRVEYAKSGRASCKKCKESIPKDSIRMAF MVESPMFDGKIPH WYHLSCFWKVGFSIWHPDVEVEGFSELRWDDQQTIK KMAETGGRTDVSGK GQDGVGSKTEKTLIDFGAGYAKSNRSTCKSCMEKIDK GQVRLSKKVYPD KPQLGMVDCWYHPKCFVQKREELGFRPEFSATHLMG FSVLTAEDQETLKK QLPAIKGERKRKGDEVDGIDEVTKKSKKEKDKEIKLE KALKAQNLIWN VKDELKKACSTNDLKELLIFNKQEVPSGESAILDRVAD GMVFGALLPCEE CSGQLVFKGDAYYCTGDVTAWTKCMVKTQTPNRKEW VTPKEFREISYFKK LKIKKQDRIFPESSTPVGAAAPPSAASAPAAVHSGP PDKPLSNMKILT GKLSQNKDEVKATIEKLGKLTGTANKASLCISTKKEV DKLNKKMEEVKE ANIRVVEDFLQDISASTKSLQELLSTHLLSPWGAEVK VEPVEAVGPKGK SGAAPSKKSKGPVKEEGTNKSEKRMKLTGGAAVD PDSGLEHNAHVLEK GGVFSATLGLVDIVKGTNSYKQLLEDDKESRYWIF RSWGRVGTVIGS NKLEQMPSKEDAIEHFMKLYEEKTGNAWHNSKNFTKHP KKFYPLEIDYGQD EEAVKKLTVNPGTKSKLPKPVQNLKIMFDVESMKKAM VEYEIDLQKMPL GKLSKRQQAAYSILSEVQQALSQGSSD SHILDLSNRFY</p> |

TLIPHDFGMKK
PPLLNNANSVQAKVEMLDNLLDIEVAYSLLRGGSDDS
SKDPIDVNYEKLK
TDIKVVDKDSEEAIEIRKYVKNTHATTHNAYDLEVVDIFK
IEREGESQRY
KPFKQLHNRLLWHGSRTTNFAGILSQGLRIAPPEAPV
TGYMFGKGYFA
DMVSKSANYCHTSQGDPIGLILLGAAALGNMYELKHAR
HISKLPKGKHSV
KGLGKTPDPSASITVDGVEVPLGTGISSGVNDTCLLY
NEYMYDIAQVH LKYLKLLKFNFKTSLW

Database link: [P18493](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Properties

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|-----------------------------|---|
| 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 | Preservative: 0.02% Sodium azide |
| Purity | Whole antiserum |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab176491** 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 |
|--------------|-----------|---|
| ICC | | 1/500. Dilution buffer: 50 mM TRIS, pH 7.5, 150 mM NaCl, 5% milk. |
| Neutralising | | Use at an assay dependent concentration. Neutralizes the biological activity of PARP |
| WB | | 1/5000. |
| IP | | 1/50. Dilution buffer: 175 mM sodium phosphate, pH 7.5, 100 mM NaCl, 1% Triton X100, 0.5% sodium deoxycholate, 0.1% SDS, 0.1 mM EDTA and protease inhibitors (0.17 µg/ml PMSF, 27 µg/ml aprotinin, 0.5 µg/ml leupeptin, 0.5 µg/ml pepstatin, 0.5 µg/ml chymostatin, 0.5 µg/ml tosylphenylalanine). |

Target

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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 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. |

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