

Product datasheet

Anti-PARP2 antibody [EPR24240-29] ab271080

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-PARP2 antibody [EPR24240-29]
Description	Rabbit monoclonal [EPR24240-29] to PARP2
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ChIP, Flow Cyt (Intra), ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T, HeLa, MDA-MB-231 whole cell lysates; PC-3 whole cell lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24240-29
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab271080 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		1/1000. Predicted molecular weight: 66 kDa.

Application notes

Is unsuitable for ChIP,Flow Cyt (Intra),ICC/IF,IHC-P or IP.

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.

Tissue specificity

Widely expressed, mainly in actively dividing tissues. The highest levels are in the brain, heart, pancreas, skeletal muscle and testis; also detected in kidney, liver, lung, placenta, ovary and spleen; levels are low in leukocytes, colon, small intestine, prostate and thymus.

Sequence similarities

Contains 1 PARP alpha-helical domain.

Contains 1 PARP catalytic domain.

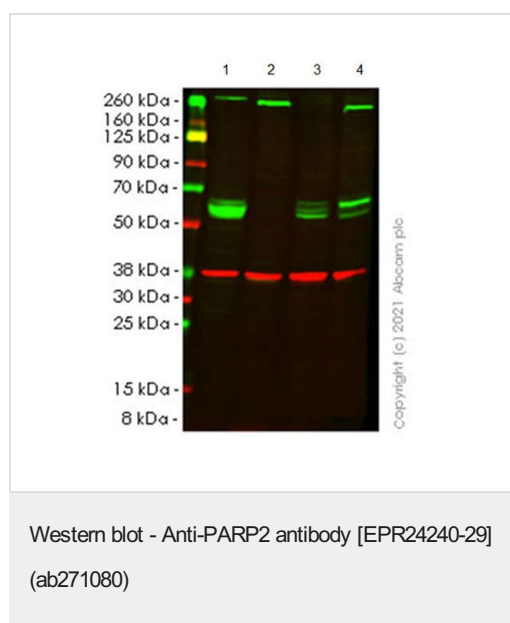
Post-translational modifications

Poly-ADP-ribosylated by PARP1.

Cellular localization

Nucleus.

Images



All lanes : Anti-PARP2 antibody [EPR24240-29] (ab271080) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T(human embryonic kidney epithelial cell) whole cell lysate

Lane 2 : PARP2 knockout HEK-293T whole cell lysate

Lane 3 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 4 : MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 800CW)

(**ab216773**) and Goat Anti-Mouse IgG H&L (IRDye® 680RD)

([ab216776](#)) at 1/10000 dilution

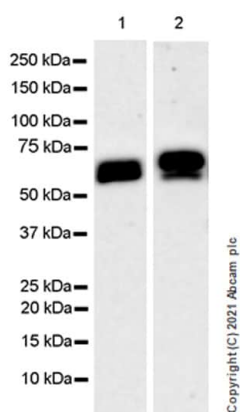
Predicted band size: 66 kDa

Observed band size: 66 kDa

Blocking and diluting buffer and concentration: 3% NFDM/TBST

Lanes 1-4: Merged signal (red and green). Green - [ab271080](#) observed at 66 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

[ab271080](#) Anti-PARP2 antibody [EPR24240-29] was shown to specifically react with PARP2 in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line [ab266414](#) (knockout cell lysate [ab258094](#)) was used. Wild-type and PARP2 knockout samples were subjected to SDS-PAGE. [ab271080](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PARP2 antibody [EPR24240-29] ([ab271080](#))

All lanes : Anti-PARP2 antibody [EPR24240-29] ([ab271080](#)) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : PC-3 (human prostate adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution





Predicted band size: 66 kDa

Observed band size: 66 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST

Exposure time: 3 minutes

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-PARP2 antibody [EPR24240-29] (ab271080)

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

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