

Anti-PARP1 antibody ab227244

★★★★★ [6 Abreviews](#) [35 References](#) [10 图像](#)

概述

产品名称	Anti-PARP1抗体
描述	兔多克隆抗体to PARP1
宿主	Rabbit
经测试应用	适用于: ChIP, IHC-P, WB, ICC/IF, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment within Human PARP1 (internal sequence). The exact sequence is proprietary. Database link: P09874
阳性对照	WB: HEK-293T, NIH/3T3 and PC-12 whole cell extracts; HCT 116, HEK-293T, A431, HeLa and HepG2 whole cell lysate (ab7900). ICC/IF: HeLa cells. ChIP: HeLa and Raji chromatin extracts. IP: HCT 116 whole cell extract. IHC-P: HeLa xenograft tissue.
常规说明	<p>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.</p> <p>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</p>

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab227244于以下的经测试应用

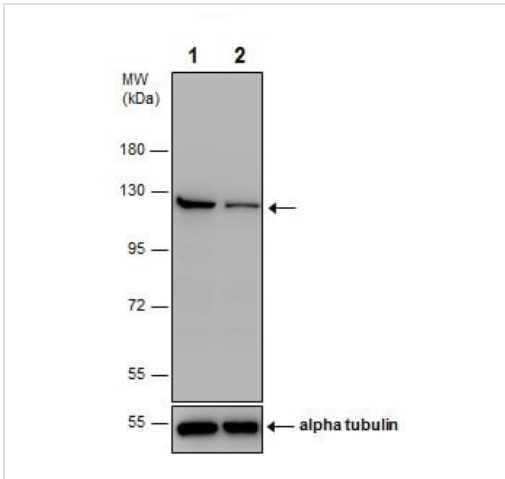
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ChIP		Use at an assay dependent concentration.
IHC-P		1/100 - 1/1000.
WB	★★★★☆ (4)	1/500 - 1/10000. Predicted molecular weight: 113 kDa.
ICC/IF	★★★★★ (1)	1/100 - 1/1000.
IP	★★★★★ (1)	1/100 - 1/500.

靶标

功能	<p>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.</p>
序列相似性	<p>Contains 1 BRCT domain. Contains 1 PARP alpha-helical domain. Contains 1 PARP catalytic domain. Contains 2 PARP-type zinc fingers.</p>
翻译后修饰	<p>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.</p>
细胞定位	<p>Nucleus.</p>

图片



Western blot - Anti-PARP1 antibody (ab227244)

All lanes : Anti-PARP1 antibody (ab227244) at 1/5000 dilution

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

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

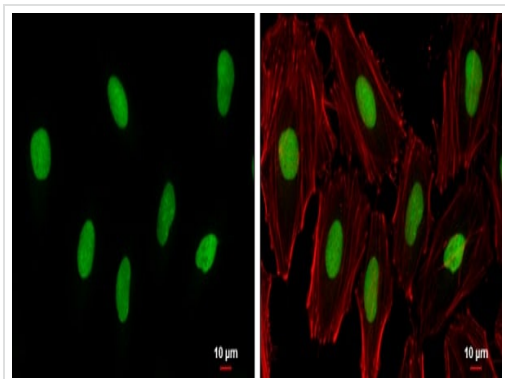
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG

Predicted band size: 113 kDa

7.5% SDS-PAGE gel.

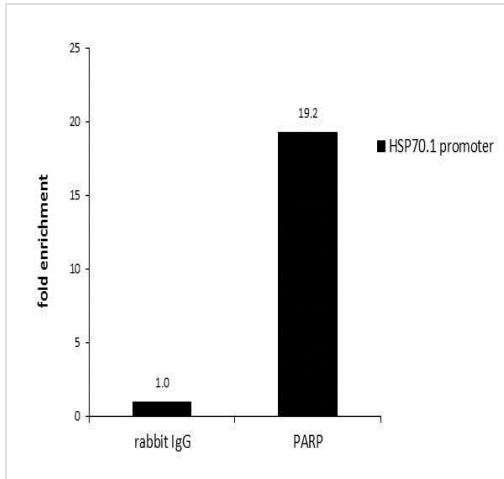


Immunocytochemistry/ Immunofluorescence - Anti-PARP1 antibody (ab227244)

4% paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for PARP1 (green) using ab227244 at 1/500 dilution in ICC/IF.

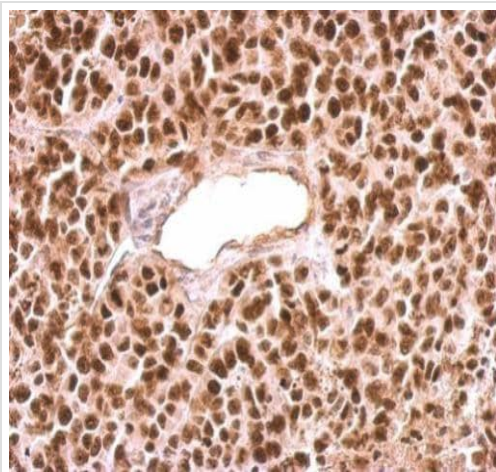
Red: Phalloidin, a cytoskeleton marker, at 1/200 dilution.

Blue: Hoechst 33342 staining.



ChIP - Anti-PARP1 antibody (ab227244)

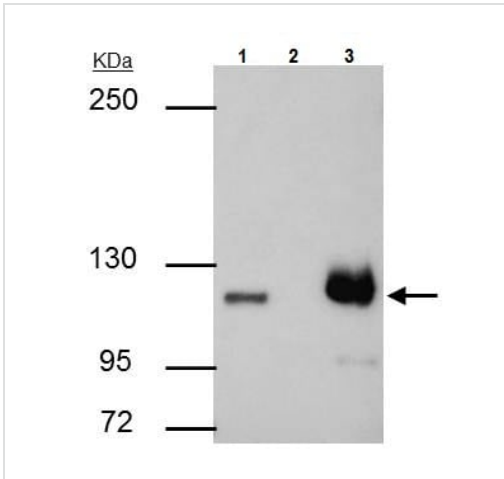
ChIP was performed with HeLa chromatin extract and 5 μ g of either normal rabbit IgG or ab227244. The precipitated DNA was detected by PCR with primer set targeting to HSP70.1 promoter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARP1 antibody (ab227244)

Paraffin-embedded HeLa xenograft tissue stained for PARP1 using ab227244 at 1/500 dilution in immunohistochemical analysis.

Antigen Retrieval: EDTA based, pH 8.0, buffer, 15minutes.



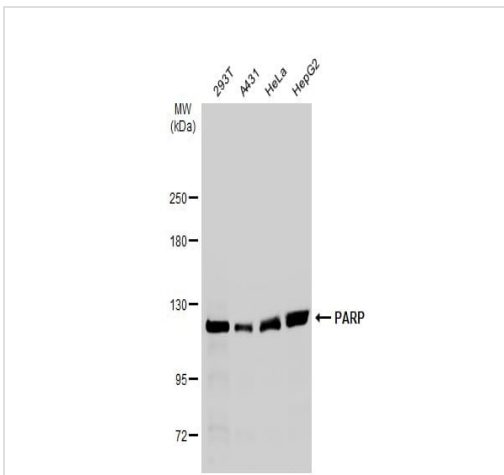
Immunoprecipitation - Anti-PARP1 antibody
(ab227244)

PARP1 was immunoprecipitated from HCT 116 (human colorectal carcinoma cell line) whole cell extract with 4 µg ab227244. Western blot was performed from the immunoprecipitate using ab227244 at 1/500 dilution. Anti-Rabbit IgG was used as a secondary reagent.

Lane 1: HCT 116 whole cell extract 30 µg.

Lane 2: Control IP in HCT 116 whole cell extract with 4 µg of preimmune Rabbit IgG.

Lane 3: ab227244 IP in HCT 116 whole cell extract.



Western blot - Anti-PARP1 antibody (ab227244)

All lanes : Anti-PARP1 antibody (ab227244) at 1/1000 dilution

Lane 1 : 293T whole cell extracts

Lane 2 : A431 whole cell extracts

Lane 3 : HeLa whole cell extracts

Lane 4 : HepG2 whole cell extracts

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

Predicted band size: 113 kDa

5% gel.

Running conditions: 80V, 15min; 140V, 40 minutes.

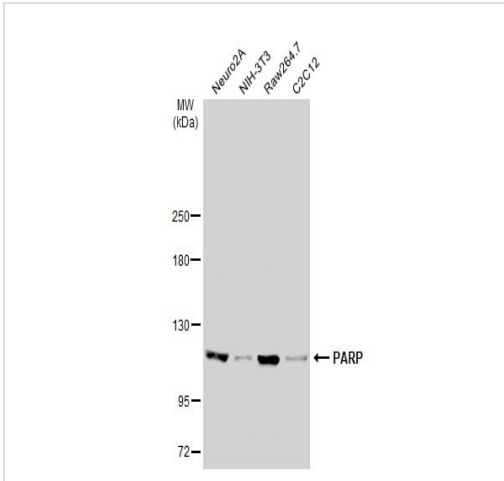
Transfer condition: Semi-dry, 18 V, 60 min (NC membrane).

Blocking condition: 5% non-fat milk in TBST, RT, 60 minutes.

Primary antibody incubation: 4? , overnight.

Washing condition: 5 ml TBST, 4 x 5 minutes.

Exposure: chemiluminescent substrate for the detection of HRP-conjugated antibody



Western blot - Anti-PARP1 antibody (ab227244)

All lanes : Anti-PARP1 antibody (ab227244) at 1/1000 dilution

All lanes : Neuro2A whole cell extracts

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

Predicted band size: 113 kDa

5% gel.

Running conditions: 80V, 15min; 140V, 40 minutes.

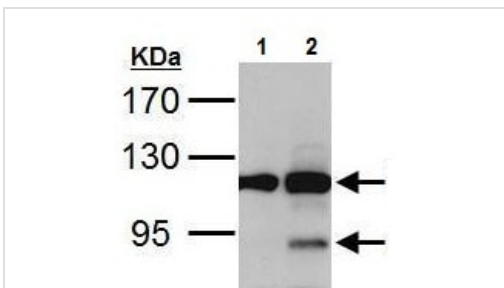
Transfer condition: Semi-dry, 18 V, 60 min (NC membrane).

Blocking condition: 5% non-fat milk in TBST, RT, 60 minutes.

Primary antibody incubation: 4? , overnight.

Washing condition: 5 ml TBST, 4 x 5 minutes.

Exposure: chemiluminescent substrate for the detection of HRP-conjugated antibody



Western blot - Anti-PARP1 antibody (ab227244)

All lanes : Anti-PARP1 antibody (ab227244) at 1/5000 dilution

Lane 1 : HCT116 whole cell lysate (untreated)

Lane 2 : HCT116 whole cell lysate (30 µM cisplatin treatment for 24 hours)

Lysates/proteins at 30 µg per lane.

Secondary

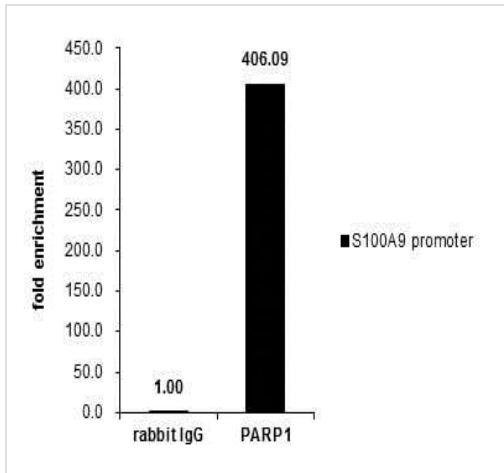
All lanes : HRP-conjugated anti-rabbit IgG

Predicted band size: 113 kDa

7.5% SDS-PAGE gel.

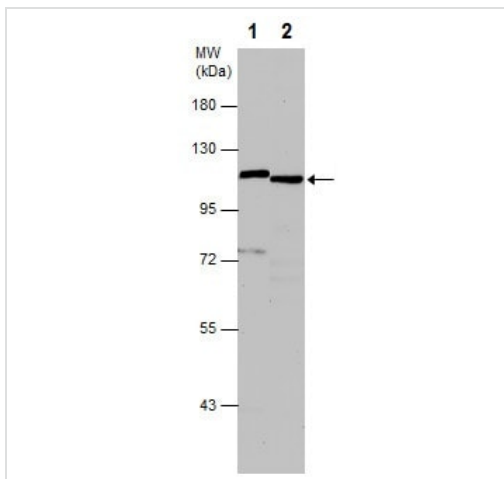
The top band is full-length and the bottom band on lane 2 is cleaved

PARP1.



ChIP - Anti-PARP1 antibody (ab227244)

Cross-linked ChIP was performed with Raji chromatin extract and 5 µg of either control rabbit IgG or ab227244. The precipitated DNA was detected by PCR with primer set targeting to S100A9 promoter.



Western blot - Anti-PARP1 antibody (ab227244)

All lanes : Anti-PARP1 antibody (ab227244) at 1/500 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell extract

Lane 2 : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell extract

Secondary

All lanes : HRP-conjugated anti-rabbit IgG

Predicted band size: 113 kDa

7.5% SDS-PAGE gel.

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