

Product datasheet

Anti-PARP1 antibody ab75757

2 Images

Overview

Product name	Anti-PARP1 antibody
Description	Chicken polyclonal to PARP1
Host species	Chicken
Specificity	In WB, ab75757 recognizes intact PARP1 (113kDa), the 89kDa apoptosis-induced cleavage product, and other lower molecular weight fragments of PARP1.
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant full length protein corresponding to Human PARP1. Highly purified human PARP1 expressed in baculovirus.
Positive control	Jurkat cell lysate

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.87% Sodium chloride, 0.316% Tris HCl
Purity	IgY fraction
Clonality	Polyclonal
Isotype	IgY

Applications

Our [Abpromise guarantee](#) covers the use of **ab75757** 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
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Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 113 kDa. Use at a concentration of 1 µg/ml (HRP/TMB colorimetric) or <1 µg/ml (ECL).
ELISA		Use at an assay dependent concentration.

Target

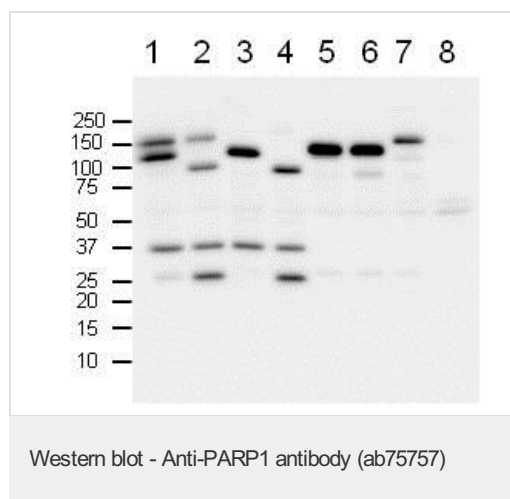
Function Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosylation) of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. Mediates the poly(ADP-ribosylation) 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



All lanes : Anti-PARP1 antibody (ab75757) at 1/1000 dilution

Lane 1 : Extract of HeLa cells treated with vehicle

Lane 2 : Extract of HeLa cells treated with staurosporine

Lane 3 : Extract of Jurkat cells treated with vehicle

Lane 4 : Extract of Jurkat cells treated with staurosporine

Lane 5 : Extract of C6 cells treated with vehicle

Lane 6 : Extract of C6 cells treated with camptothecin

Lane 7 : Extract of NIH 3T3 cells treated with vehicle

Lane 8 : Extract of NIH 3T3 cells treated with staurosporine

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-chicken IgY at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 113 kDa

Exposure time: 1 minute

SDS PAGE performed under reducing conditions (100mM DTT, Sample heated at 50°C).

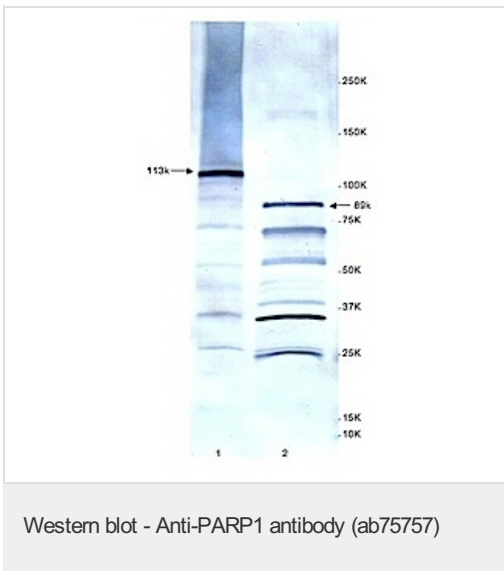
Blocking: in 5% Milk + PBS for 3 hours at RT.

Primary antibody diluted in 5% Milk + PBS and incubated overnight at 4°C.

Secondary antibody diluted in 5% Milk + PBS and incubated for 2 hour at RT.

Predicted band size : 113 kDa: 89 kDa and 24 kDa.

Observed band size : 113 kDa: 89 kDa and 24 kDa.



All lanes : Anti-PARP1 antibody (ab75757) at 1 µg/ml

Lane 1 : Jurkat cell lysate at 5 µg

Lane 2 : Apoptotic Jurkat cell lysate, induced with camptothecin for 4 hr

Secondary

All lanes : GAC-HRP at 1/2000 dilution

Predicted band size: 113 kDa

Additional bands at: 89 kDa (possible cleavage fragment)

Note other smaller apoptosis-induced PARP1 fragments in Lane 2.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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