

Datasheet for ABIN5596914  
**anti-PARP1 antibody (C-Term)**

## 6 Images

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## Overview

Quantity:	100 µg
Target:	PARP1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PARP1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Immunogen: PARP1 (internal) purified antibody was prepared from whole rabbit serum produced by repeated immunizations with c-terminus region of human PARP1 autocatalytic domain recombinant protein. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for human PARP1 protein. No cross reactivity detected towards other PARP members when using siRNAs against 18 PARP family members. Cross-reactivity with PARP1 from other sources has not been determined.
Purification:	PARP1 (internal) was purified from monospecific antiserum by immunoaffinity chromatography using protein A coupled to agarose beads.

## Target Details

Target:	PARP1
Alternative Name:	PARP1 ( <a href="#">PARP1 Products</a> )
Background:	<p>Synonyms: Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, ARTD1, NAD(+) ADP-ribosyltransferase 1, ADPRT 1, PPOL</p> <p>Background: PARP1 is the primary member of the poly(ADP-ribose) polymerase family, whose function is to signal DNA damage (and to recruit repair proteins) by PARylation. PARP1 is also involved in multiple cell death pathways, including apoptosis, necroptosis, autophagy, and a relatively new pathway termed parthanatos. It has been implicated in a new form of cell death termed parthanatos. PARP1 can also promote tissue survival by shifting the balance of cell death programs between autophagy and necrosis. Clinical studies have shown vulnerability to PARP inhibitors in DNA repair defective cancers. Anti-PARP1 (internal) antibody is useful for researchers interested in cellular processes including DNA damage, transcriptional control, and stem cell identity research.</p> <p>Gene Name: PARP1</p>
UniProt:	<a href="#">P09874</a>
Pathways:	<a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">DNA Damage Repair</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Maintenance of Protein Location</a>

## Application Details

Application Notes:	<p>Application Note: Anti-PARP1 (internal) antibody has been validated by western blotting and nanoimmunoassay (NIA). Specific conditions for reactivity should be optimized by the end user.</p> <p>Expect a band approximately 113 kDa in size corresponding to PARP-1 by western blotting in the appropriate cell lysate or extract.</p> <p>Western Blot Dilution: 1:1000</p>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None
Preservative:	Sodium azide

Handling

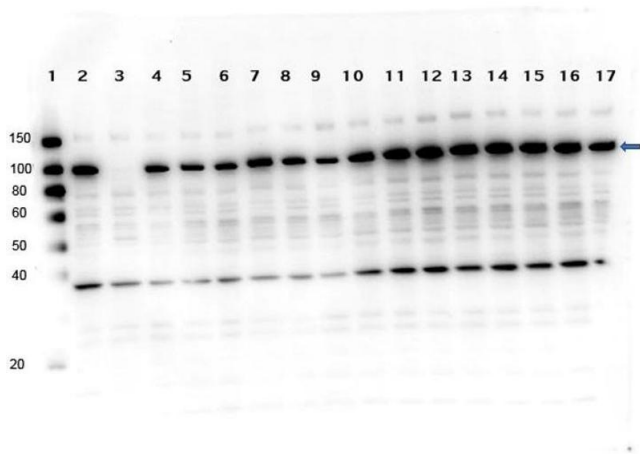
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

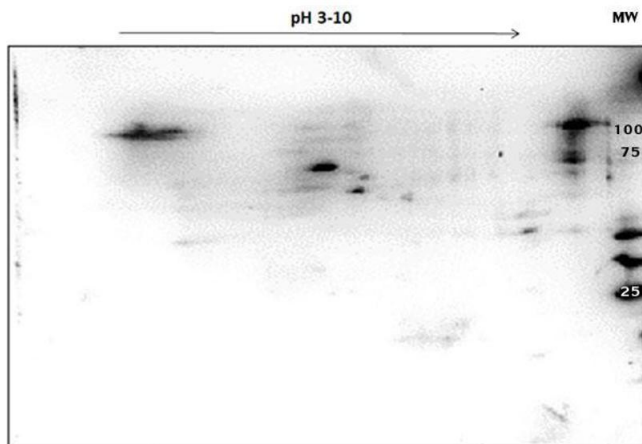
**Image 1.** Western Blot of recombinant PARP1 with Rabbit anti-PARP1 (internal) antibody. Lane 1: PARP1-autocatalytic domain recombinant protein. Load: 0.05 µg per lane. Primary antibody: PARP1 (internal) antibody at 1µg/mL for overnight at 4°C. Secondary antibody: HRP Gt-a-rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 overnight at 4°C. Predicted/Observed size: ~19 kDa for rPARP1 (internal) Other band(s): none.



Western Blotting

**Image 2.** Western Blot of Rabbit anti-PARP1 multi lysate Western Blot of Rabbit anti-PARP1 antibody. Lane 1: Molecular Weight ladder. Lane 2: OVCAR-8 Wild Type. Lane 3: PARP1-KO. Lane 4: PARP2-KO. Lane 5: PARP3-KO. Lane 6: PARP4-KO Lane 7: PARP5a-KO. Lane 8: PARP5b-KO. Lane 9: PARP6-KO. Lane 10: PARP7-KO. Lane 11: PARP8-KO. Lane 12: PARP9-KO. Lane 13: PARP10-KO. Lane 14: PARP12-KO. Lane 15: PARP13-KO. Lane 16: PARP14-KO. Lane 17: PARP16-KO. Load: 5.0 µg per lane. Primary antibody: PARP1 antibody at 1ug/mL overnight at 4°C. Secondary antibody: Goat anti-rabbit Peroxidase secondary antibody at 1:40,000 for 30 min at RT. Blocking Buffer: for 30 min at RT.

Predicted size: ~113kDa for PARP1. Observed nonspecific ~40kDa.



### SDS-PAGE

**Image 3.** 2D SDS-PAGE and WB of PARP1 OVCAR-8 Wild Type Lysate separated on 2D SDS-PAGE and blotted on PVDF to analyze immunocoverage of PARP1 antibody specific for the autocatalytic domain of PARP1. Primary Antibody: Anti-PARP1 (internal) antibody 1:200 overnight at 4°C. Secondary Antibody: Goat anti-rabbit Peroxidase at 1:2,000 at RT for 30min. Blocking Buffer: BlockOut for 30min at RT. Predicted/observed: ~110 kDa and pI 9.7. Other spots detected: cleavage products of PARP1.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN5596914.