



Datasheet for ABIN6972484
anti-PARP1 antibody (N-Term)



[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	PARP1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PARP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), ChIP DNA-Sequencing (ChIP-seq)

Product Details

Immunogen:	This antibody was raised against a His-Tagged fusion protein corresponding to the N-terminal half of human PARP-1.
Isotype:	IgG
Characteristics:	PARP-1 N-terminal (ADPRT) encodes a chromatin-associated enzyme, poly(ADP-ribose)transferase, that modifies various nuclear proteins by poly(ADP-ribose)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation and tumor transformation. It also plays a role in the regulation of the molecular events involved in the recovery of cells from DNA damage. Cleavage of PARP-1 (ADPRT) occurs following caspase activation during apoptosis. For additional information on PARP-1, please see the review article PARP-1: An Abundant and Ubiquitous Protein with Roles in Many Cellular Processes in the Targets & Applications section of our website. PARP-1 N-terminal antibody (pAb) was raised in a Rabbit host. It has been

Product Details

validated for use in ChIP-Seq, Immunoprecipitation and Western blot, it has been shown to react with Human samples.

Purification: Protein A Chromatography

Target Details

Target: PARP1

Alternative Name: PARP-1 ([PARP1 Products](#))

Molecular Weight: 120 kDa

NCBI Accession: [NP_001609](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [DNA Damage Repair](#), [Production of Molecular Mediator of Immune Response](#), [Maintenance of Protein Location](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

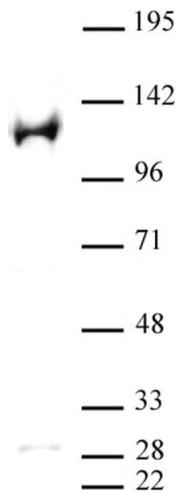
Buffer: Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

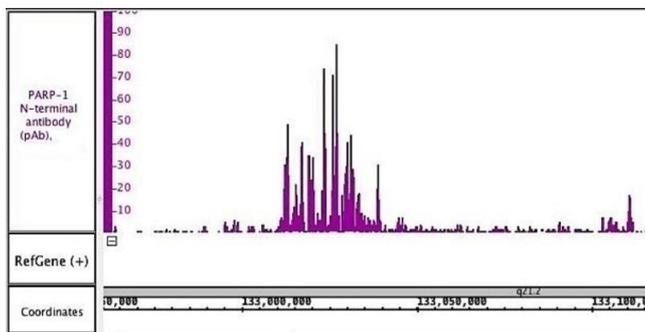
Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



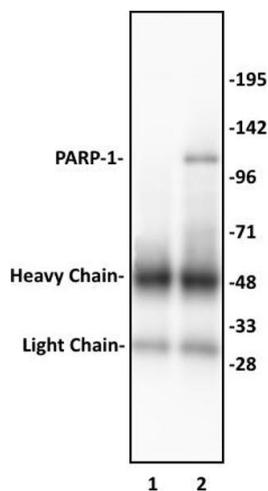
Western Blotting

Image 1. PARP-1 N-terminal antibody (pAb) tested by Western blot. HeLa nuclear extract (25 µg) was probed with PARP-1 N-terminal antibody at a dilution of 1 µg/mL.



ChIP DNA-Sequencing

Image 2. PARP-1 N-terminal antibody (pAb) antibody (rAb) tested by ChIP-Seq. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 µg of chromatin from human NCI-H209 lung cancer cells and 5 µg of PARP-1 N-terminal antibody (pAb). ChIP DNA was sequenced on the Illumina NextSeq and 7.7 million sequence tags were mapped to identify PARP binding sites on chromosome 2.



Immunoprecipitation

Image 3. PARP-1 N-terminal antibody (pAb) tested by Immunoprecipitation. 10 µg of PARP-1 antibody was used to immunoprecipitate PARP-1 from 250 µg of HeLa nuclear cell extract (lane 2). 10 µg of rabbit IgG was used as a negative control (lane 1). The immunoprecipitated protein was detected by Western blotting using the PARP-1 antibody at a dilution of 1 µg/mL.