Datasheet for ABIN6972484

anti-PARP1 antibody (N-Term)

3 Images

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Overview

Quantity:	100 µg
Target:	PARP1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
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-ribosyl)transferase, that modifies various nuclear proteins by poly(ADP-ribosyl)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 validated for use in ChIP-Seq, Immunoprecipitation and Western blot, it has been shown to

Product Details

	react with Human samples.
Purification:	Protein A Chromatography

Target Details

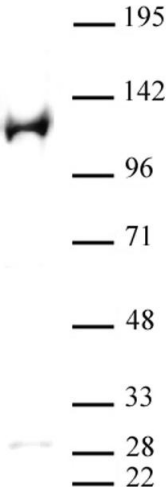
Target:	PARP1
Alternative Name:	PARP-1 (PARP1 Products)
Molecular Weight:	120 kDa
NCBI Accession:	NP_001609
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, DNA Damage Repair, Production of Molecular Mediator of Immune Response, Maintenance of Protein Location

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

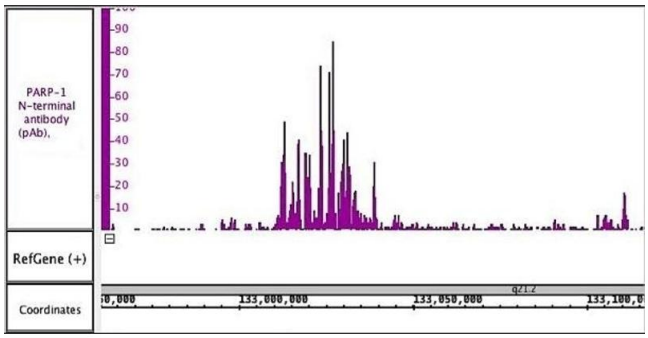
Handling

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.



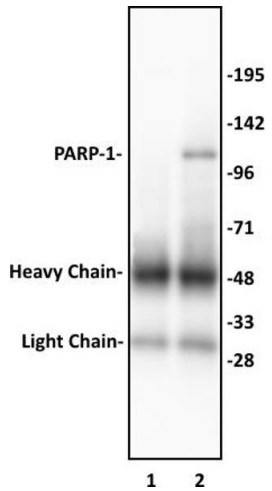
Western Blotting

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.