

Datasheet for ABIN2854798

anti-PARP1 antibody

17 Images

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Overview

Quantity:	100 µL
Target:	PARP1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PARP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human PARP1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to PARP (poly (ADP-ribose) polymerase 1) PARP antibody
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	PARP1
Alternative Name:	poly(ADP-ribose) polymerase 1 (PARP1 Products)
Background:	<p>This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which 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 and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes.</p> <p>Cellular Localization: Nucleus</p>
Molecular Weight:	113 kDa
Gene ID:	142
UniProt:	P09874
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , DNA Damage Repair , Production of Molecular Mediator of Immune Response , Maintenance of Protein Location

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	<p>Positive Control: HCT116 (30uM cisplatin treatment for 24hr) , PC-12 , Rat2 , 293T , A431 , HeLa , HepG2</p> <p>Validation: Comparison, KO/KD, Orthogonal, Overexpression</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.3 mg/mL
Buffer:	1XPBS (pH 7), 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in: Manzione, Rombouts, Steklov, Pasquali, Sablina, Gelens, Qian, Bollen: "Co-regulation of the antagonistic RepoMan:Aurora-B pair in proliferating cells." in: **Molecular biology of the cell**, Vol. 31, Issue 6, pp. 419-438, (2020) ([PubMed](#)).

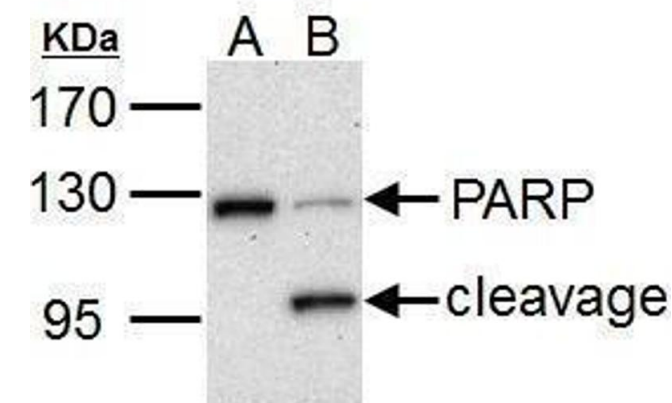
Huang, Zhang, Jiang, Zhang, Xiang, Ren: "FoxM1 Induced Paclitaxel Resistance via Activation of the FoxM1/PHB1/RAF-MEK-ERK Pathway and Enhancement of the ABCA2 Transporter." in: **Molecular therapy oncolytics**, Vol. 14, pp. 196-212, (2019) ([PubMed](#)).

Cohn, Feldman, Weil, Kublanovsky, Levy: "Chromatin associated SETD3 negatively regulates VEGF expression." in: **Scientific reports**, Vol. 6, pp. 37115, (2018) ([PubMed](#)).

Xie, Wu, Mack, Yang, Kim, Hubert, Flavahan, Chu, Bao, Rich: "CDC20 maintains tumor initiating cells." in: **Oncotarget**, Vol. 6, Issue 15, pp. 13241-54, (2016) ([PubMed](#)).

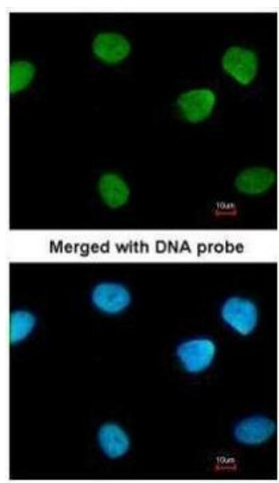
Sanders, Ross-Innes, Beraldi, Carroll, Balasubramanian: "Genome-wide mapping of FOXM1 binding reveals co-binding with estrogen receptor alpha in breast cancer cells." in: **Genome biology**, Vol. 14, Issue 1, pp. R6, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



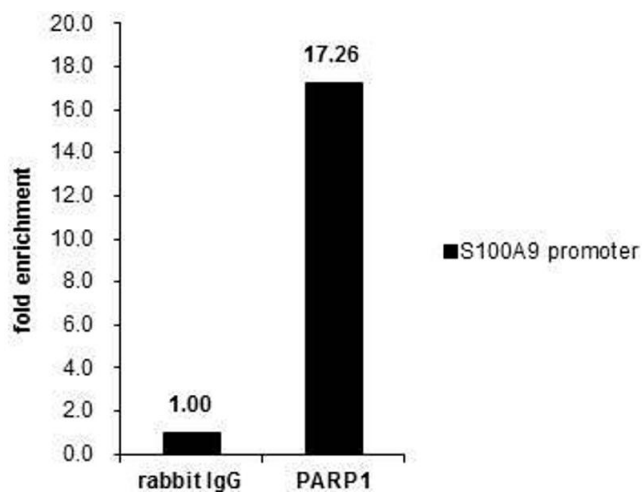
Western Blotting

Image 1. WB Image PARP1 antibody detects PARP1 protein by Western blot analysis. A. 30 μ g HCT116 whole cell lysate/extract (untreated) B. 30 μ g HCT116 whole cell lysate/extract (30 μ M cisplatin treatment for 24hr) 7.5 % SDS-PAGE PARP1 antibody , dilution: 1:1000



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using PARP1, antibody at 1:200 dilution.



Chromatin Immunoprecipitation

Image 3. ChIP Image Cross-linked ChIP was performed with Raji chromatin extract and 5 μ g of either control rabbit IgG or anti-PARP1 antibody. The precipitated DNA was detected by PCR with primer set targeting to S100A9 promoter.

Please check the [product details page](#) for more images. Overall 17 images are available for ABIN2854798.