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Datasheet for ABIN3043378

anti-PARP1 antibody (AA 670-858)

6 Images

2 Publications

Overview

Quantity:	100 µg
Target:	PARP1
Binding Specificity:	AA 670-858
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Poly [ADP-ribose] polymerase 1(PARP1) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	E.coli-derived human PARP recombinant protein (Position: Q670-R858). Human PARP shares 94% and 95% amino acid (aa) sequence identity with mouse and rat PARP, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Poly [ADP-ribose] polymerase 1(PARP1) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: poly (ADP-ribose) polymerase 1 Protein Name: Poly [ADP-ribose] polymerase 1
Purification:	Immunogen affinity purified.

Target Details

Target: PARP1

Alternative Name: PARP1 ([PARP1 Products](#))

Background: Poly [ADP-ribose] polymerase 1 (PARP1), also known as ADPRT or PPOL is an enzyme that in humans is encoded by the PARP1 gene. PARP1 gene is mapped to 1q42.12. 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.

Synonyms: ADP ribosyltransferase (NAD+, poly (ADP ribose) polymerase) antibody|ADP ribosyltransferase diphtheria toxin like 1 antibody|ADP ribosyltransferase NAD(+) antibody|ADP ribosyltransferase NAD+ antibody|ADPRT 1 antibody|ADPRT antibody|ADPRT1 antibody|ARTD1 antibody|msPARP antibody|NAD(+) ADP ribosyltransferase 1 antibody|NAD(+) ADP-ribosyltransferase 1 antibody|pADPRT 1 antibody|pADPRT1 antibody|PARP 1 antibody|PARP antibody|PARP-1 antibody|PARP1 antibody|PARP1_HUMAN antibody|Poly (ADP ribose) polymerase 1 antibody|poly (ADP ribose) polymerase family, member 1 antibody|Poly [ADP-ribose]polymerase 1 antibody|Poly adenosine diphosphate ADP ribose polymerase antibody|Poly ADP ribose polymerase 1 antibody|Poly ADP ribose polymerase family member 1 antibody|Poly ADP ribose synthetase 1 antibody|Poly(ADP ribose) polymerase antibody|poly(ADP ribose) synthetase antibody|poly(ADP ribosyl)transferase antibody|Poly[ADP ribose] synthetase 1 antibody|Poly[ADP-ribose] synthase 1 antibody|PPOL antibody

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: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for PARP is approximately 0.25 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the

Application Details

staining of formalin/paraffin sections.

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg 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.

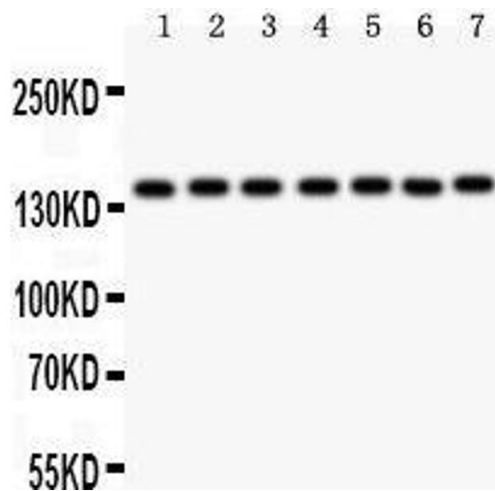
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

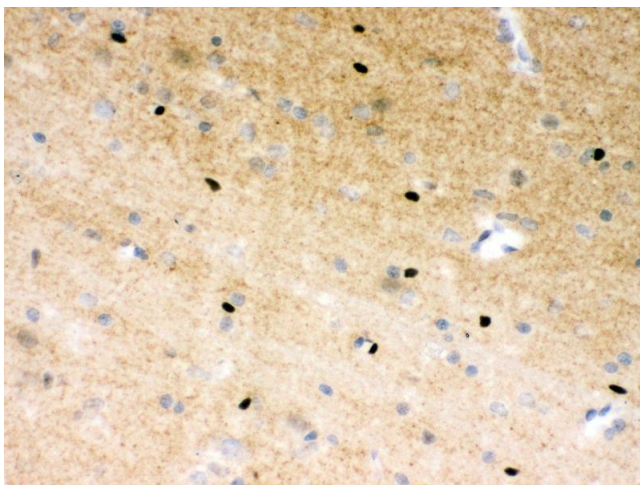
Publications

Product cited in: Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) ([PubMed](#)).



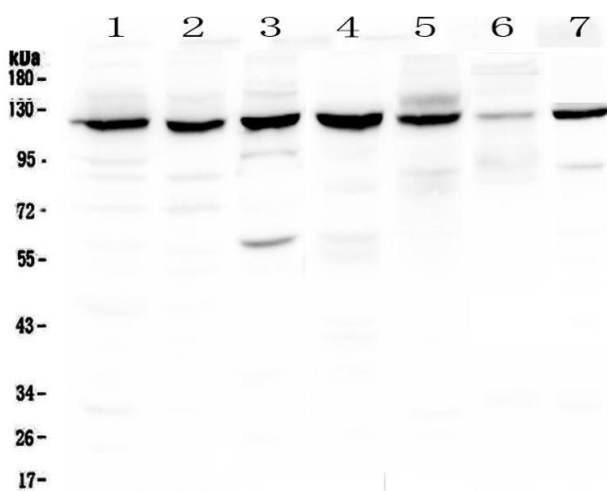
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti- PARP Picoband antibody, IHC(P) IHC(P): Rat Brain Tissue



Western Blotting

Image 3. Western blot analysis of PARP using anti-PARP antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human COLO-320 whole cell lysates, Lane 4: human Jurkat whole cell lysates, Lane 5: rat PC-12 whole cell lysates, Lane 6: mouse NIH3T3 whole cell lysates, Lane 7: mouse HEPA1-6 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PARP antigen affinity purified

polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PARP at approximately 120KD. The expected band size for PARP is at 113KD.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3043378.