Datasheet for ABIN5706805

anti-PARP1 antibody (N-Term)

6 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), Immunohistochemistry (IHC), Two Dimensional Polyacrylamide Gel Electrophoresis (2D-PAGE)

Product Details

Purpose:	PARP1 (N-term ZF1) Antibody
Immunogen:	Immunogen: PARP1 (N-term ZF1) purified antibody was prepared from whole rabbit serum produced by repeated immunizations with n-terminus region of human PARP1 zinc finger domain recombinant protein. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for human PARP1 protein.
Characteristics:	Synonyms: rabbit anti-PARP1 Antibody, Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, ARTD1, NAD(+) ADP-ribosyltransferase 1, ADPRT 1, PPOL
Purification:	PARP1 (N-term ZF1) was purified from monospecific antiserum by immunoaffinity chromatography using protein A coupled to agarose beads.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	PARP1
Alternative Name:	PARP1 (PARP1 Products)
Background:	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 (N-term ZF1) antibody is useful for researchers interested in cellular processes including DNA damage, transcriptional control, and stem cell identity research.
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:	Immunohistochemistry Dilution: 1:100 Application Note: Anti-PARP1 (N-term ZF1) antibody has been validated by western blotting, IHC, and nanoimmunoassay (NIA). Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 113 kDa in size corresponding to PARP-1 by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:1000 Other: nanoimmunoassay (NIA): User Optimized
Restrictions:	For Research Use only

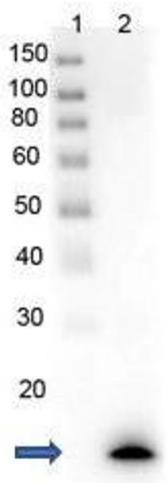
Handling

Format:	Liquid
Concentration:	1.0 mg/mL

Handling

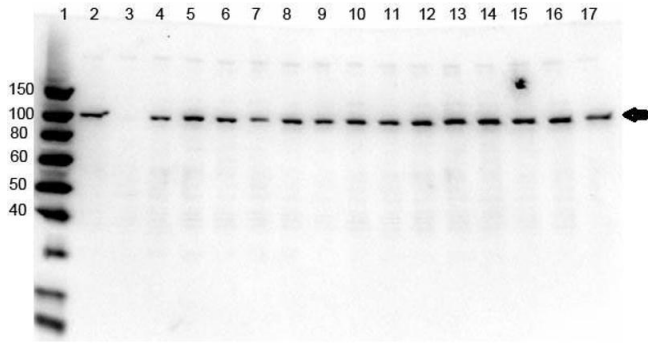
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	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



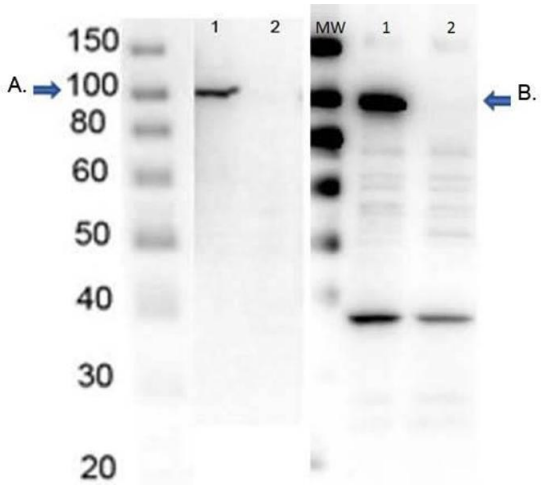
Western Blotting

Image 1. Western Blot of Rabbit anti-PARP1-ZF with protein Western Blot of recombinant PARP1 with rabbit anti-PARP1 (N-term ZF1) antibody. Lane 1: PARP1-Zinc Finger domain recombinant protein. Load: 0.05 µg per lane. Primary antibody: PARP1 (N-term ZF1) 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: 13 kDa for rPARP1 (N-term ZF1). Other band(s): none.



Western Blotting

Image 2. Western Blot of Rabbit anti-PARP1 antibody multi lysate Western Blot of Rabbit anti-PARP1 N-term Antibody. Lane 1: Opal Pre-stained 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 n-term 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/Observed size: ~113 kDa for PARP1.



Western Blotting

Image 3. Western Blot of endogenous PARP1 with Rabbit Anti-PARP1 Antibodies Western Blot of endogenous PARP1 with Rabbit Anti-PARP1 Antibodies. Lane 1: OVCAR8 Wild Type lysate. Lane 2: OVCAR8 PARP1 KO lysate. Load 5 µg per lane. Primary Antibody: Blot A: Anti-PARP1- n term ; Blot B: Anti-PARP1- internal at 1µg/mL for overnight at 4°C. Secondary antibody: HRP Gt-a-Rb IgG secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 overnight at 4°C. Predicted/Observed size: 113 kDa for endogenous PARP1. Other band(s): nonspecific ~ 40kDa in PARP1-AD only.

Please check the product details page for more images. Overall 6 images are available for ABIN5706805.