

Rabbit anti-Human, Rat PARP2 Polyclonal Antibody | anti-PARP2 antibody

Anti-PARP2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125690	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

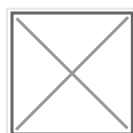
PRODUCT SYNONYMS

PARP2; Polyclonal Antibody; Anti-PARP2 Antibody; ADPRT2; ADPRTL2; Poly [ADP-ribose] polymerase 2; PARP-2; hPARP-2; ADP-ribosyltransferase diphtheria toxin-like 2; ARTD2; DNA ADP-ribosyltransferase PARP2; NAD(+) ADP-ribosyltransferase 2; ADPRT-2; Poly[ADP-ribose] synthase 2; pADPRT-2; Protein poly-ADP-ribosyltransferase PARP2; poly(ADP-ribose) polymerase 2; anti-PARP2 antibody

PRODUCT SPECIFICATIONS

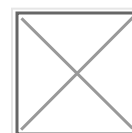
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PARP2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-PARP2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human PARP2 recombinant protein (Position: R13-E253).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HL-60 cells using anti-PARP2 antibody (AAA125690). Overlay histogram showing HL-60 cells stained with AAA125690 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PARP2 Antibody (AAA125690, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of PARP2 using anti-PARP2 antibody (AAA125690). PARP2 was detected in immunocytochemical section of HEP cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti- PARP2 Antibody (AAA125690) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PARP2 using anti-PARP2 antibody (AAA125690). 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: rat testis tissue lysates Lane 2: human HEK293 whole cell lysates Lane 3: human HL-60 whole cell lysates Lane 4: human U2OS whole cell lysates Lane 5: human HepG2 whole cell lysates Lane 6: human A431 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-PARP2 antigen affinity purified polyclonal antibody (Catalog # AAA125690) at 0.5 µg/mL overnight at 4 degree 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PARP2 at approximately 66KD. The expected band size for PARP2 is at 66KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PARP2 antibody	Poly [ADP-ribose] polymerase 2 is an enzyme that in humans is encoded by the PARP2 gene. This gene encodes poly(ADP-ribosyl)transferase-like 2 protein, which contains a catalytic domain and is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. The basic residues within the N-terminal region of this protein may bear potential DNA-binding properties, and may be involved in the nuclear and/or nucleolar targeting of the protein. Two alternatively spliced transcript variants encoding distinct isoforms have been found.
References	1. Ame, J. -C., Rolli, V., Schreiber, V., Niedergang, C., Apiou, F., Decker, P., Muller, S., Hoger, T., Menissier-de Murcia, J., de Murcia, G. PARP-2, a novel mammalian DNA damage-dependent poly(ADP-ribose) polymerase. J. Biol. Chem. 274: 17860-17868, 1999. 2. Berghammer, H., Ebner, M., Marksteiner, R., Auer, B. pADPRT-2: a novel mammalian polymerizing(ADP-ribosyl)transferase gene related to truncated pADPRT homologues in plants and Caenorhabditis elegans. FEBS Lett. 449: 259-263, 1999. 3. Dantzer, F., Mark, M., Quenet, D., Scherthan, H., Huber, A., Liebe, B., Monaco, L., Chicheportiche, A., Sassone-Corsi, P., de Murcia, G., Menissier-de Murcia, J. Poly(ADP-ribose) polymerase-2 contributes to the fidelity of male meiosis I and spermiogenesis. Proc. Nat. Acad. Sci. 103: 14854-14859, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	110825963
NCBI GeneID	10038
NCBI Accession #	NP_001036083.1
NCBI GenBank Nucleotide #	NM_001042618.1
UniProt Accession #	Q9UGN5; Q8TEU4; Q9NUV2; Q9UMR4; Q9Y6C8
Molecular Weight	66,206 Da
NCBI Official Full Name	poly
NCBI Official Synonym Full Names	poly (ADP-ribose) polymerase 2
NCBI Official Symbol	PARP2
NCBI Official Synonym Symbols	ARTD2; ADPRT2; PARP-2; ADPRTL2; ADPRTL3; pADPRT-2
NCBI Protein Information	poly [ADP-ribose] polymerase 2; poly [ADP-ribose] polymerase 2; ADPRT-2; hPARP-2; poly(ADP-ribose) synthetase; poly[ADP-ribose] synthase 2; poly[ADP-ribose] synthetase 2; NAD(+) ADP-ribosyltransferase 2; poly (ADP-ribosyl) transferase-like 2; poly (ADP-ri

UniProt Protein Name	Poly [ADP-ribose] polymerase 2
UniProt Gene Name	PARP2
UniProt Synonym Gene Names	ADPRT2; ADPRTL2; PARP-2; hPARP-2; ARTD2; ADPRT-2; pADPRT-2
UniProt Entry Name	PARP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/parp2-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125690>