

Human PARP2 antibody

Catalog Number: ATGA0578

PRODUCT INFORMATION

Catalog number

ATGA0578

Clone No.

AT29G4

Product type

Monoclonal antibody

UnitProt No.

Q9UGN5

NCBI Accession No.

NP_005475

Alternative Names

Poly (ADP-ribose) polymerase 2, ADPRT2, ADPRTL2, ADPRTL3, ARTD2, pADPRT-2, PARP-2

Additional Information

This product was produced from tissue culture supernatant.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human PARP2 (233-583aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain

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optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PARP2 is 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.

General References

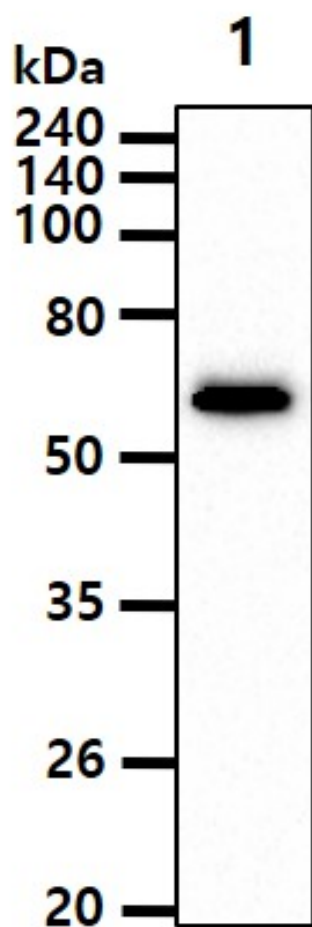
Ame JC, Rolli V, Schreiber V et al. (1999). J. Biol. Chem. 274 (25): 17860-8.
Schreiber V, Ame JC, Dolle P et al. (2002). J. Biol. Chem. 277 (25): 23028-36.
Maeda Y, Hunter TC, Loudy DE et al. (2006). J. Biol. Chem. 281 (14): 9600-6.

DATA

Western blot analysis (WB)

Human PARP2 antibody

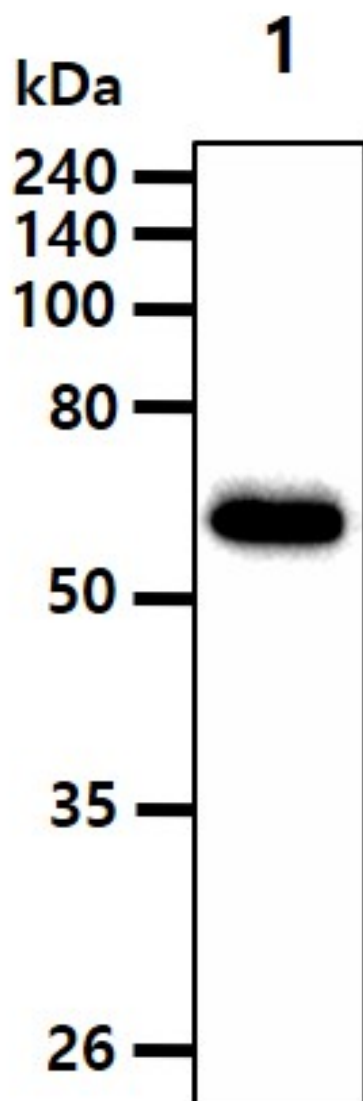
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The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: SW480 cell lysate

Human PARP2 antibody

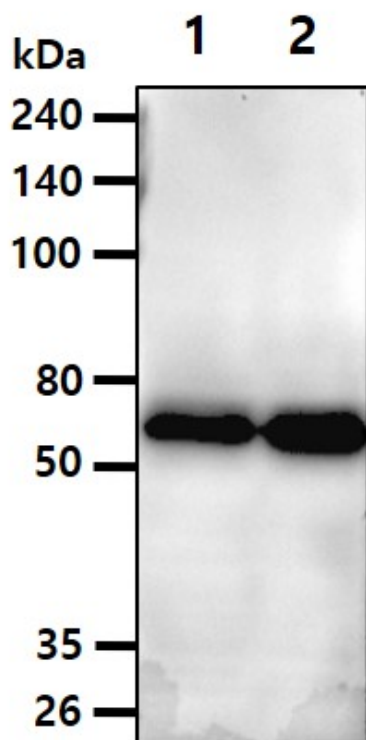
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The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate

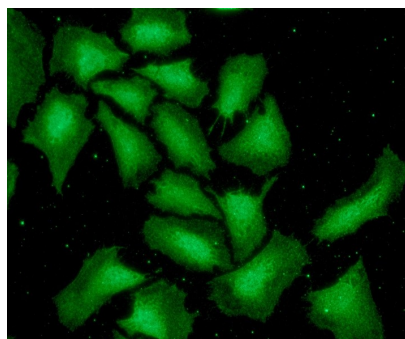
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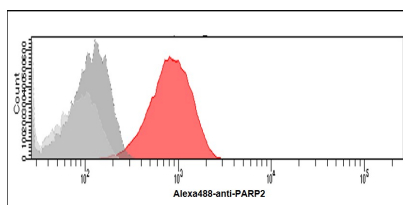
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
 Lane 1.: NIH3T3 cell lysate
 Lane 1.: Raji cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PARP2 in HeLa cells. The cell was stained with ATGA0578 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of PARP2 in U87MG cells. The cell was stained with ATGA0578 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).