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

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 ofcatalyzing a poly (ADP-ribosyl) ation reaction. This protein has a catalytic domain which is homologous to thatof poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminalcatalytic domain of poly (ADP-ribosyl) transferase. The basic residues within the N-terminal region of thisprotein may bear potential DNA-binding properties, and may be involved in the nuclear and/or nucleolar targetingof 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)

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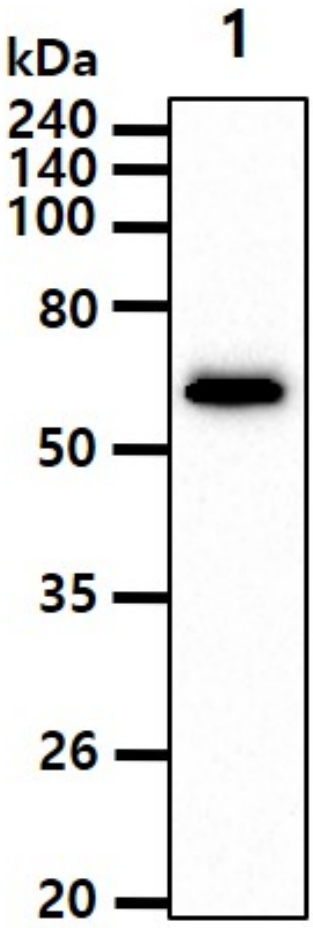

The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: SW480 cell lysate

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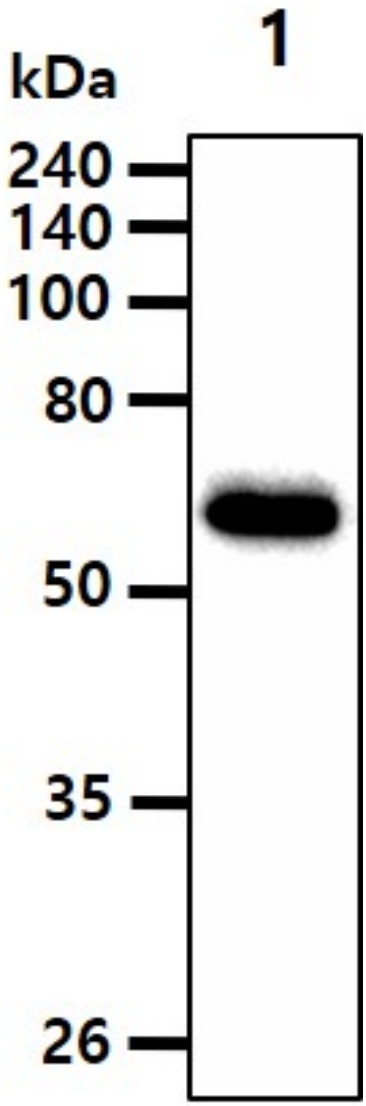

The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate

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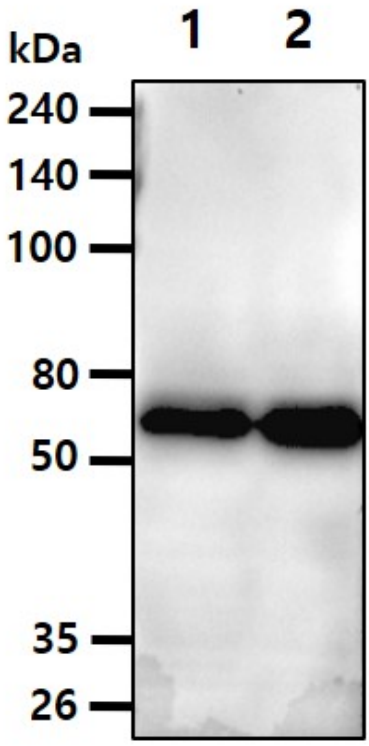
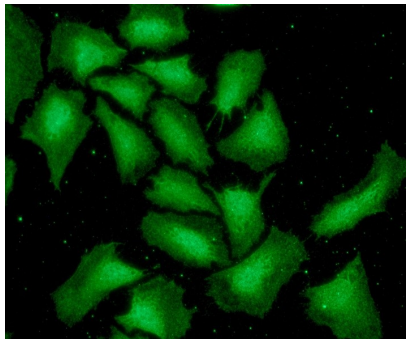


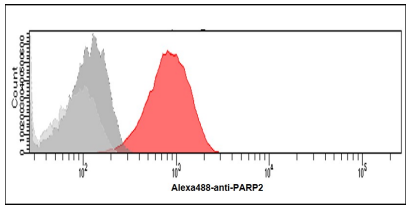
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: NIH3T3 cell lysate
Lane 1.: Raji cell lysate

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 1x10^6cells (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).