Human PARP2 antibody

Catalog Number: ATGA0270

PRODUCT INFORMATION

Catalog number
ATGA0270

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

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
IgG2a 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.

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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

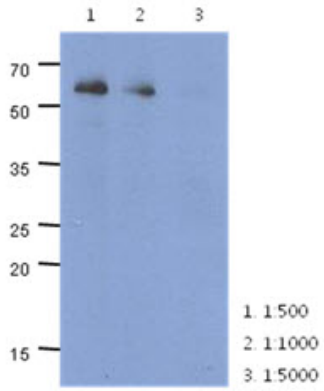
PARP2 is poly (ADP-ribosyl) transferase-like 2 protein, which contains a catalytic domain and is capable of catalyzing a poly (ADP-ribosyl) ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which 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

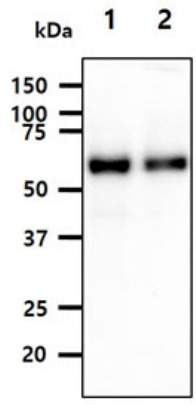
Ame JC, Rolli V, Schreiber V et al. (1999). J. Biol. Chem. 274 (25): 17860-8.
Schreiber V, Ame JC, Dolle P et al. (2002). J. Biol. Chem. 277 (25): 23028-36.
Maeda Y, Hunter TC, Loudy DE et al. (2006). J. Biol. Chem. 281 (14): 9600-6.

DATA

Western blot analysis (WB)



The cell lysate of HeLa (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARP2 antibody (1:500 ~ 1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



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Lane 1. : Raji cell lysate
Lane 2. : NIH-3T3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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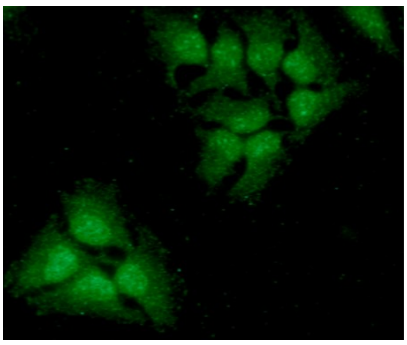
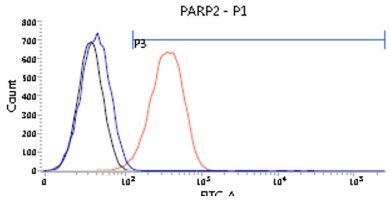


ICC/IF analysis of PARP2 in HeLa cells. The cell was stained with ATGA0270 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of PARP2 in U87MG cells. The cell was stained with ATGA0270 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 (blue), cells without incubation with primary and secondary antibody was used as the negative control (black).