

## **Product datasheet for TA379633**

## **PARP1 Rabbit Polyclonal Antibody**

**Product data:** 

**Product Type:** Primary Antibodies

**Applications:** ICC/IF, WB

Recommended Dilution: WB,1:1000 - 1:3000

IHC,1:50 - 1:200 IF,1:50 - 1:200 IP,1:50 - 1:200

Reactivity: Human, Mouse, Rat

Modifications: Unmodified

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 81-390 of

human PARP1 (NP\_001609.2).

**Formulation:** Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

**Concentration:** lot specific

**Purification:** Affinity purification

**Conjugation:** Unconjugated

**Storage:** Store at -20°C. Avoid freeze / thaw cycles.

**Stability:** Shelf life: one year from despatch.

Predicted Protein Size: 113kDa

**Gene Name:** poly(ADP-ribose) polymerase 1

Database Link: Entrez Gene 142 Human

P09874



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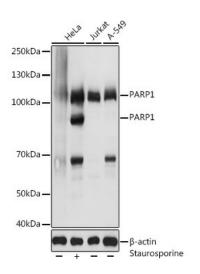
## Background:

This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes.

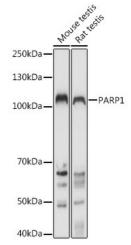
Synonyms:

ADPRT; ADPRT1; pADPRT-1; PARP; PARP-1; poly(ADP-ribosyl)transferase; PPOL

## **Product images:**

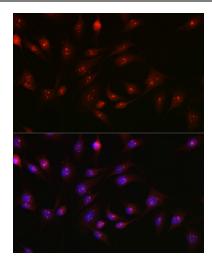


Western blot analysis of extracts of various cell lines, using PARP1 antibody (TA379633) at 1:3000 dilution.HeLa cells were treated by staurosporine(1 uM) for 3 hour.|Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.|Lysates/proteins: 25ug per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit.|Exposure time: 1s.

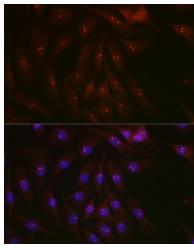


Western blot analysis of extracts of various cell lines, using PARP1 antibody (TA379633) at 1:3000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 3s.

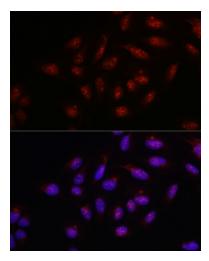




Immunofluorescence analysis of C6 cells using [KO Validated] PARP1 Rabbit pAb (TA379633) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

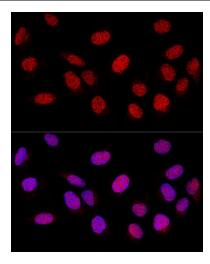


Immunofluorescence analysis of NIH-3T3 cells using [KO Validated] PARP1 Rabbit pAb (TA379633) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using [KO Validated] PARP1 Rabbit pAb (TA379633) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.





Confocal immunofluorescence analysis of U-2 OS cells using PARP1 Polyclonal Antibody (TA379633) at dilution of 1:200. Blue: DAPI for nuclear staining.