

产品名称: PARP-3 Rabbit Polyclonal Antibody  
产品货号: AP Rab15767



## 产品概述 (Summary)

|                        |                                   |
|------------------------|-----------------------------------|
| 产品名称 (Production Name) | PARP-3 Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody        |
| 宿主 (Host)              | Rabbit                            |
| 应用 (Application)       | IHC, ICC, IF, ELISA               |
| 种属反应性 (Reactivity)     | Human, Rat, Mouse                 |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PARP3<br>PARP3; ADPRT3; ADPRTL3; Poly [ADP-ribose] polymerase 3; PARP-3; hPARP-3;                                                            |
| 别名 (Alternative Names) | ADP-ribosyltransferase diphtheria toxin-like 3; ARTD3; IRT1; NAD(+) ADP-ribosyltransferase 3; ADPRT-3; Poly[ADP-ribose] synthase 3; pADPRT-3 |
| 基因 ID (Gene ID)        | 10039.0                                                                                                                                      |
| 蛋白 ID (SwissProt ID)   | Q9Y6F1. The antiserum was produced against synthesized peptide derived from human PARP3. AA range:10-59                                      |

## 产品应用 (Application)

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | IHC 1:100-1:300, ICC/IF 1:50-1:200, ELISA 1:5000-1:10000 |
| 蛋白分子量 (Molecular Weight) |                                                          |

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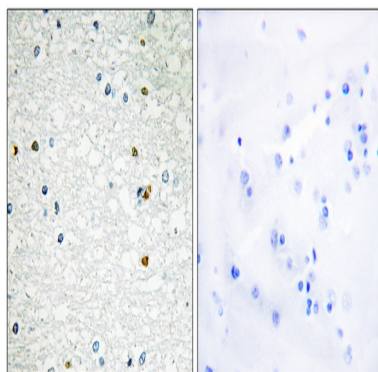
## 研究背景 (Background)

The protein encoded by this gene belongs to the PARP family. These enzymes modify nuclear proteins by poly-ADP-ribosylation, which is required for DNA repair, regulation of apoptosis, and maintenance of genomic stability. This gene encodes the poly(ADP-ribosyl)transferase 3, which is preferentially localized to the daughter centriole throughout the cell cycle. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],catalytic activity:NAD(+) + (ADP-D-ribosyl)(n)-acceptor = nicotinamide + (ADP-D-ribosyl)(n+1)-acceptor.,domain:According to PubMed:10329013 the N-terminal domain (54 amino acids) of isoform 2 is responsible for its centrosomal localization. The C-terminal region contains the catalytic domain.,function:Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. May link the DNA damage surveillance network to the mitotic fidelity checkpoint. Negatively influences the G1/S cell cycle progression without interfering with centrosome duplication. Binds DNA. May be involved in the regulation of PRC2 and PRC3 complex-dependent gene silencing.,PTM:Auto-poly(ADP)-ribosylation.,similarity:Contains 1 PARP alpha-helical domain.,similarity:Contains 1 PARP catalytic domain.,subcellular location:Core component of the centrosome. Preferentially localized to the daughter centriole throughout the cell cycle. According PubMed:16924674 is almost exclusively localized in the nucleus and appears in numerous small foci and a small number of larger foci whereas a centrosomal location has not been detected.,subunit:Interacts with PRKDC and PARP1. Interacts with XRCC5; the interaction is dependent on nucleic acids. Interacts with XRCC6; the interaction is dependent on nucleic acids. Interacts with EZH2, HDAC1, HDAC2, SUZ12, YY1, LIG3 and LIG4.,tissue specificity:Widely expressed; the highest levels are in the kidney, skeletal muscle, liver, heart and spleen; also detected in pancreas, lung, placenta, brain, leukocytes, colon, small intestine, ovary, testis, prostate and thymus.,

## 研究领域 (Research Area)

Base excision repair;

## 图片 (Image Data)



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Immunohistochemistry analysis of paraffin-embedded human brain, using PARP3 Antibody. The picture on the right is blocked with the synthesized peptide.

**注意事项 (Note)**

For research use only .