# **Product Name: PARP-3 Rabbit Polyclonal Antibody**

Catalog #: APRab15767



#### **Summary**

**Production Name** PARP-3 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** IHC-P,IF-P,IF-F,ICC/IF,ELISA

**Reactivity** Human, Rat, Mouse

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

### **Immunogen**

Gene Name PARP3

PARP3; ADPRT3; ADPRTL3; Poly [ADP-ribose] polymerase 3; PARP-3; hPARP-3; ADP-

Alternative Names ribosyltransferase diphtheria toxin-like 3; ARTD3; IRT1; NAD(+) ADP-ribosyltransferase

3; ADPRT-3; Poly[ADP-ribose] synthase 3; pADPRT-3

**Gene ID** 10039.0

Q9Y6F1. The antiserum was produced against synthesized peptide derived from human

PARP3. AA range:10-59

## **Application**

SwissProt ID

**Dilution Ratio** IHC-P 1:100-1:300, ELISA 1:5000, IF-P/IF-F/ICC/IF 1:50-200

**Molecular Weight** 

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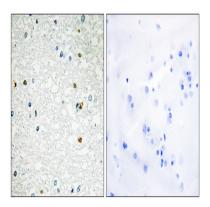
#### **Background**

The protein encoded by this gene belongs to the PARP family. These enzymes modify nuclear proteins by poly-ADPribosylation, 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.,

#### Research Area

Base excision repair;

#### **Image Data**



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

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**C** EnkiLife

blocked with the synthesized peptide.

#### Note

For research use only.

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