

# Cleaved-PARP-1 (G215) Polyclonal Antibody

CatalogNo: YC0073 Orthogonal Validated 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, ELISA

### MW

- 89kD (Observed)

### Isotype

- IgG

## Recommended Dilution Ratios

**WB 1:500-1:2000****ELISA 1:5000****Not yet tested in other applications.**

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** 1 mg/ml

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PARP. AA range: 196-245**Specificity** Cleaved-PARP-1 (G215) Polyclonal Antibody detects endogenous levels of fragment of activated PARP-1 protein resulting from cleavage adjacent to G215.

## Target Information

**Gene name** PARP1

**Protein Name** Poly [ADP-ribose] polymerase 1

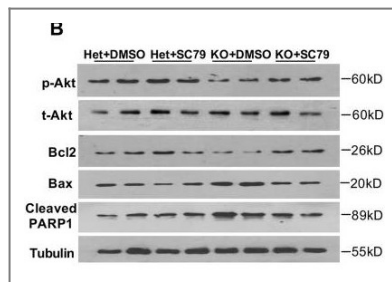
| Organism | Gene ID               | UniProt ID               |
|----------|-----------------------|--------------------------|
| Human    | <a href="#">142</a> ; | <a href="#">P09874</a> ; |
| Mouse    |                       | <a href="#">P11103</a> ; |

**Cellular Localization** Nucleus . Nucleus, nucleolus . Chromosome . Localizes to sites of DNA damage. .

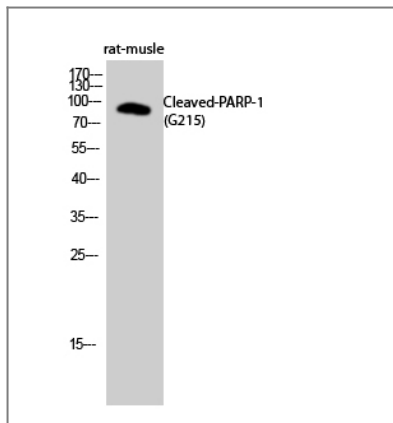
**Tissue specificity** Brain,Colon carcinoma,Fibroblast,Lung,Ovarian carcinoma,Skin,

**Function** Catalytic activity:NAD(+) + (ADP-D-ribosyl)(n)-acceptor = nicotinamide + (ADP-D-ribosyl)(n+1)-acceptor.,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.,miscellaneous:The ADP-D-ribosyl group of NAD(+) is transferred to an acceptor carboxyl group on a histone or the enzyme itself, and further ADP-ribosyl groups are transferred to the 2'-position of the terminal adenosine moiety, building up a polymer with an average chain length of 20-30 units.,PTM:Phosphorylated by PRKDC. Phosphorylated upon DNA damage, probably by ATM or ATR.,PTM:Poly-ADP-ribosylated by PARP2.,similarity:Contains 1 BRCT domain.,similarity:Contains 1 PARP alpha-helical domain.,similarity:Contains 1 PARP catalytic domain.,similarity:Contains 2 PARP-type zinc fingers.,subunit:Component of a base excision repair (BER) complex, containing at least XRCC1, PARP2, POLB and LIG3. Homo- and heterodimer with PARP2. Interacts with PARP3, APTX and SRY. The SWAP complex consists of NPM1, NCL, PARP1 and SWAP70. Interacts with TIAM2 and ZNF423.,

## Validation Data



Wang, Bin, et al. "Loss of Tctn3 causes neuronal apoptosis and neural tube defects in mice." *Cell death & disease* 9.5 (2018): 520.



Western Blot analysis of rat-muscle cells using Cleaved-PARP-1 (G215) Polyclonal Antibody diluted at 1:500

## Contact information

Orders: [order@immunoway.com](mailto:order@immunoway.com)  
Support: [tech@immunoway.com](mailto:tech@immunoway.com)  
Telephone: 408-747-0189 (USA) 400-8787-807(China)  
Website: <http://www.immunoway.com>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:  
**Cleaved-PARP-1 (G215) Polyclonal Antibody**

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