Cleaved PARP-1 (Gly215) Rabbit pAb

CatalogNo: YC0073 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 89kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

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

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

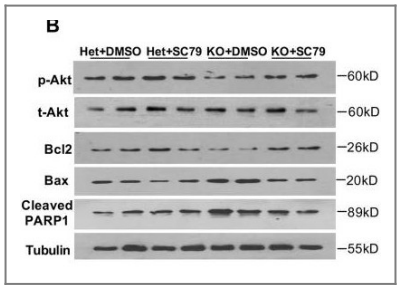
Organism	Gene ID	UniProt ID
Human	142;	P09874;
Mouse		P11103;

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

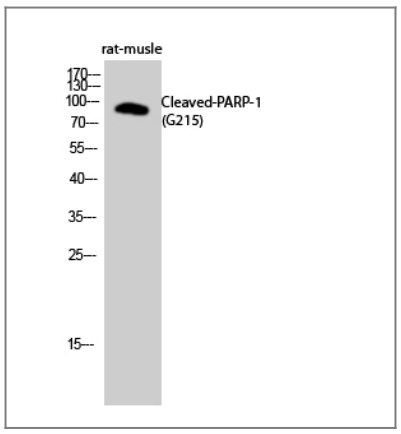
Tissue specificity Brain ,Colon carcinoma ,Fibroblast ,Lung ,Ovarian carcinoma ,Skin ,

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-musle cells using Cleaved-PARP-1 (G215) Polyclonal Antibody diluted at 1:500

Contact information

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Please scan the QR code to access additional product information:
Cleaved PARP-1 (Gly215) Rabbit pAb

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