

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	

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	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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.

Gene name	PARP1			
Protein Name	Poly [ADP-ribose] polymerase 1			
	Organism	Gene ID	UniProt ID	
	Human	<u>142;</u>	<u>P09874;</u>	
	Mouse		<u>P11103;</u>	
Cellular Localization	Nucleus . Nucleus, nucleolus . Chro	nosome . Localize	es 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

в		
	Het+DMSO Het+SC79 KO+DMSO KO+SC7	79
p-Akt		-60kD
t-Akt		-60kD
Bcl2		-26kD
Bax		-20kD
Cleaved PARP1		-89kD
Tubulin		-55kD

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

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents