

PARP (M3) Mouse mAb

CatalogNo: YM3131

Orthogonal Validated 

Key Features

Host Species

- Mouse

Reactivity

- Human,Chicken(testedbyyourcustomer)

Applications

- WB

MW

- 116kD (Observed)

Recommended Dilution Ratios

WB 1:1000-3000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Basic Information

Clonality Monoclonal**Clone Number** M3

Immunogen Information

Immunogen Synthetic Peptide of PARP**Specificity** The antibody detects endogenous PARP protein.

Target Information

Gene name PARP1

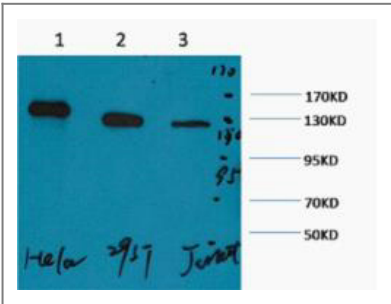
Protein Name	Poly [ADP-ribose] polymerase 1		
	Organism	Gene ID	UniProt ID
	Human	142;	P09874;
	Mouse		P11103;
	Rat	25591;	P27008;

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

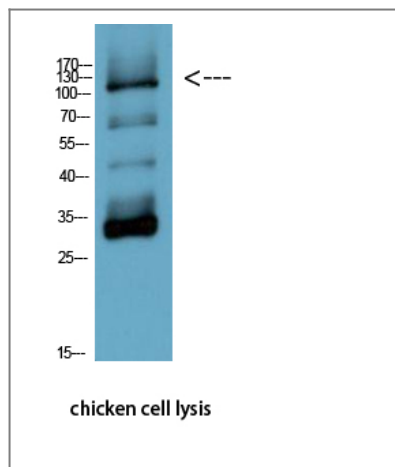
Tissue specificity Brain,Colon carcinoma,Fibroblast,Lung,Ovarian carcinoma,Skin,

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



Western blot analysis of 1) Hela, 2) 293T, 3) Jurkat, diluted at 1:2000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Western Blot analysis of chicken cell lysis using Antibody diluted at 1:1000

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**PARP (M3) Mouse
mAb**

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