PARP-1 Mouse mAb

CatalogNo: YM0506

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,FC,ELISA

MW
- 113kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
Flow Cyt 1:200-1:400
ELISA 1:10000
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	Monoclonal

Immunogen Information

Immunogen	Synthetic peptide of human PARP-1, conjugated to KLH.
Specificity	PARP-1 Monoclonal Antibody detects endogenous levels of PARP-1 protein.

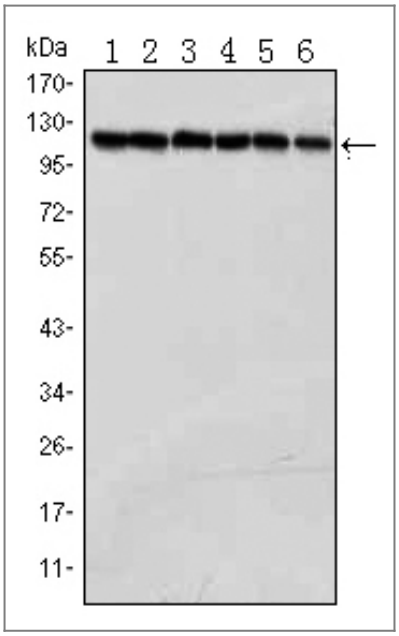
Target Information

Gene name	PARP1
Protein Name	Poly [ADP-ribose] polymerase 1

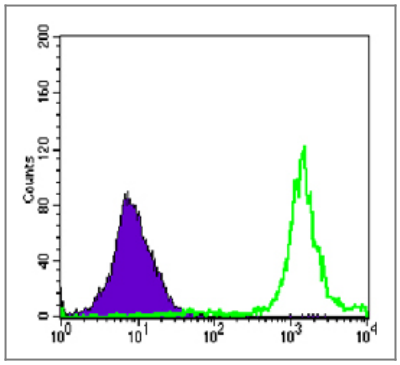
Organism	Gene ID	UniProt ID
Human	142;	P09874;
Mouse		P11103;

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



Western Blot analysis using PARP-1 Monoclonal Antibody against Jurkat (1), K562 (2), HeLa (3), Raji (4),THP-1 (5) and SW620 (6) cell lysate.



Flow cytometric analysis of Jurkat cells using PARP-1 Monoclonal Antibody (green) and negative control (purple).

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
PARP-1 Mouse mAb