

Anti-PARP1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

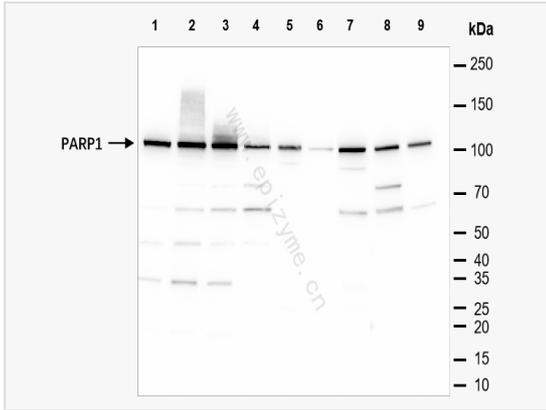
Catalog # R014285

Product Information

Application	IHC-P/IF (Tissue-P), ELISA, WB, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	76M33M81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PARP1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PARP1 Rabbit mAb [76M33M81] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ADP ribosyltransferase (NAD ⁺ ; poly (ADP ribose) polymerase), ADP ribosyltransferase, ADP ribosyltransferase diphtheria toxin like 1, ADP ribosyltransferase NAD(+), ADPRT 1, ADPRT, ADPRT1, ARTD1, msPARP, NAD(+) ADP ribosyltransferase 1, NAD(+) ADP-ribosyltransferase 1, pADPRT 1, pADPRT-1, pADPRT1, PARP 1, PARP, PARP-1, PARP1, PARP1_HUMAN, Poly (ADP ribose) polymerase 1, poly (ADP ribose) polymerase family, member 1, Poly (ADP-ribose) polymerase 1, Poly [ADP-ribose] polymerase 1, Poly(ADP ribose) polymerase, poly(ADP ribose) synthetase, poly(ADP ribosyl)transferase, Poly(ADP-ribosyl)transferase, Poly[ADP ribose] synthetase 1, Poly[ADP-ribose] synthase 1, PPOL, sPARP 1, sPARP1.
Calculated MW	Calculated MW: 113 kDa; Observed MW: 116 kDa, 89 kDa
Uniprot ID	P09874
Gene ID	142
Background	This gene encodes a chromatin-associated enzyme, poly(ADP-ribose)transferase, which modifies various nuclear proteins by poly(ADP-ribose)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes. [provided by RefSeq, Jul 2008]
Cellular Location	Nucleus.



Western Blot - Anti-PARP1 Rabbit mAb [76M33M81]

All lanes: R014285 at 1:1,000 dilution

Lane 1: HEL (Human erythroleukemia cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 6: Rat heart whole tissue lysates

Lane 7: Rat spleen whole tissue lysates

Lane 8: Mouse kidney whole tissue lysates

Lane 9: Mouse muscle whole tissue lysates

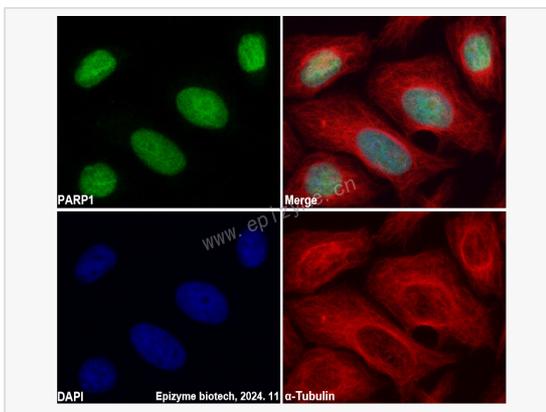
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 113 kDa

Observed band size: 116 kDa, 89 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PARP1 Rabbit mAb [76M33M81]

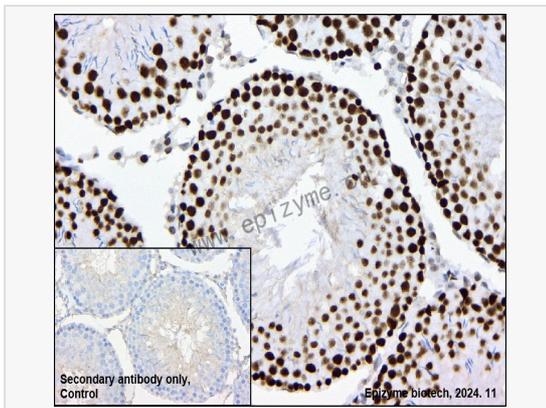
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014285 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-PARP1 Rabbit mAb [76M33M81]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

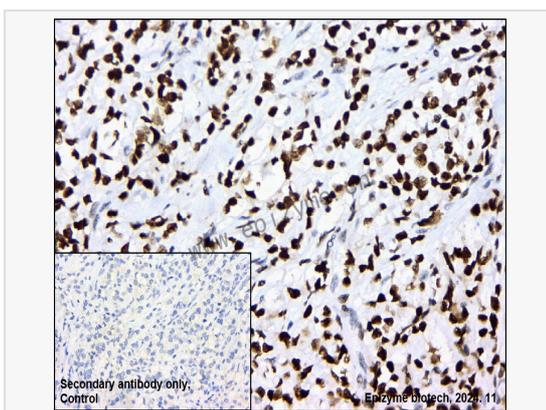
Primary antibody: R014285 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PARP1 Rabbit mAb [76M33M81]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

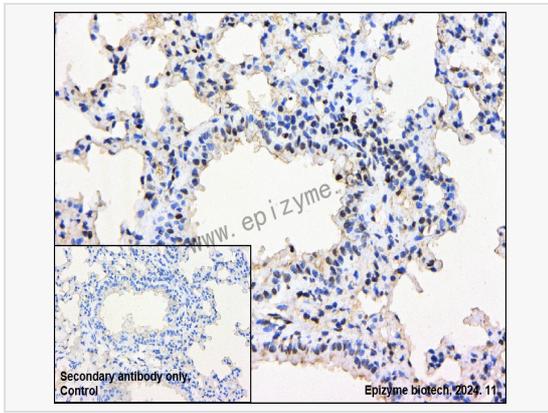
Primary antibody: R014285 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PARP1 Rabbit mAb [76M33M81]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014285 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.