

## PARP1 Polyclonal Antibody

Catalog number: 13371-1-AP

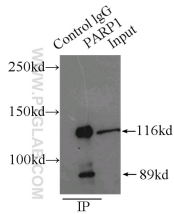
Size: 28 µg/150 µl

Source: Rabbit

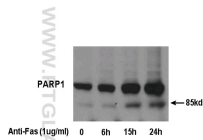
Isotype: IgG

Synonyms:

PARP1; ADPRT, ADPRT 1, ADPRT1, pADPRT 1, PARP, PARP 1, PARP1, poly (ADP ribose) polymerase 1, Poly [ADP ribose] polymerase 1, Poly[ADP ribose] synthase 1, PPOL

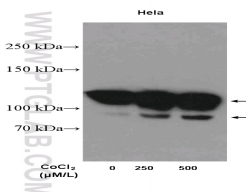


IP Result of anti-PARP1 (IP:13371-1-AP, 4µg; Detection:13371-1-AP 1:600) with K-562 cells lysate 5000µg.



Anti-Fas (60196-1-IG) treated HeLa cells were subjected to SDS PAGE followed by western blot with 13371-1-AP (PARP1 Antibody) at dilution of 1:1000.

Anti-Fas treated HeLa cells were subjected to SDS PAGE followed by western blot with 13371-1-AP (PARP1 Antibody) at dilution of 1:1000.



Cobalt Chloride treated HeLa cells were subjected to SDS PAGE followed by western blot with 13371-1-AP ( PARP1 Antibody) at dilution of 1:1000

### Background

PARP1 (poly(ADP-ribose) polymerase 1) is a nuclear enzyme catalyzing the poly(ADP-ribosyl)ation of many key proteins in vivo. The normal function of PARP1 is the routine repair of DNA damage. Activated by DNA strand breaks, the PARP1 is cleaved into an 85 to 89-kDa COOH-terminal fragment and a 24-kDa NH2-terminal peptide by caspases during the apoptotic process. The appearance of PARP fragments is commonly considered as an important biomarker of apoptosis. In addition to caspases, other proteases like calpains, cathepsins, granzymes and matrix metalloproteinases (MMPs) have also been reported to cleave PARP1 and gave rise to fragments ranging from 42-89-kD. This antibody was generated against the C-terminal region of human PARP1 and it recognizes the full-length as well as the cleavage of the PARP1.

### Applications

<b>Tested applications:</b>	ELISA, IP, WB
<b>Cited applications:</b>	IHC, IP, WB
<b>Species specificity:</b>	Human, Mouse, Rat; other species not tested.
<b>Cited species:</b>	Human, mouse, rat
<b>Calculated PARP1 MW:</b>	1014aa, 113 kDa
<b>Observed PARP1 MW:</b>	113-116 kDa
<b>Positive WB detected in</b>	Fas antibody treated HeLa cells, A549 cells, Cobalt Chloride treated HeLa cells, HeLa cells, Jurkat cells, K-562 cells, Raji cells, Y79 cells
<b>Positive IP detected in</b>	K-562 cells
<b>Recommended dilution:</b>	WB: 1:500-1:5000 IP: 1:200-1:2000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

<b>Immunogen:</b>	Ag4193
<b>GenBank accession number:</b>	BC037545
<b>Gene ID (NCBI):</b>	142
<b>Full name:</b>	Poly (ADP-ribose) polymerase 1

### Product information

<b>Purification method:</b>	Antigen affinity purification
<b>Storage:</b>	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.