

## Anti-PARP1 Antibody (4Z18)

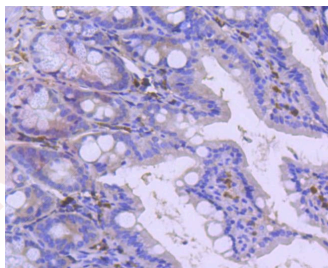
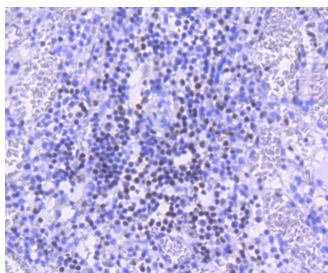
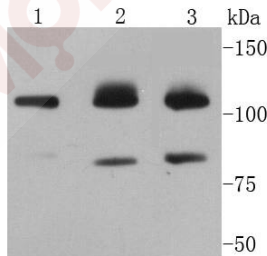
### Product Details

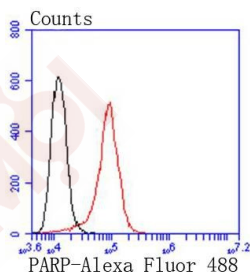
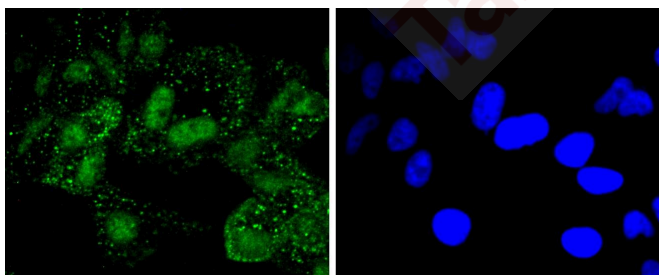
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 113/89 kDa.
Clone:	4Z18
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of PARP on different lysates using anti-PARP antibody at 1/1,000 dilution. Positive control: Lane 1: A549, Lane 2: Jurkat, Lane 3: Hela.
2. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-PARP antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PARP antibody. Counter stained with hematoxylin.
4. ICC staining PARP in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. Flow cytometric analysis of Hela cells with PARP antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM,ICC/IF,IHC,WB

Recommended WB: 1:1000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P09874

Synonyms: PARS;ADPRT1;Poly-PARP;ADPRT;ADPRT 1;PARP;PPOL;ARTD1;PARP-1;pADPRT-1

### Research Background

PARP, a 116 kDa nuclear poly (ADP-ribose) polymerase, appears to be involved in DNA repair in response to environmental stress. This protein can be cleaved by many ICE-like caspases in vitro and is one of the main cleavage targets of caspase-3 in vivo. In human PARP, the cleavage occurs between Asp214 and Gly215, which separates the PARP amino-terminal DNA binding domain (24 kDa) from the carboxy-terminal catalytic domain (89 kDa). PARP helps cells to maintain their viability; cleavage of PARP facilitates cellular disassembly and serves as a marker of cells undergoing apoptosis.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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