[KO Validated] PARP1 Rabbit pAb

Catalog No. A0942  
Category Polyclonal Antibodies  
Applications WB, IHC, IF, IP, ChIP  
Observed MW 100kDa, 110kDa, 125kDa  
Cross-reactivity Human, Mouse, Rat  
Calculated MW 113kDa

Immunogen Information

Immunogen Recombinant fusion protein containing a sequence corresponding to amino acids 81-390 of human PARP1 (NP_001609.2).
Gene ID 142
Swiss prot P09874
Synonyms ADPRT;ADPRT1;ARTD1;PARP;PARP-1;PPOL;pADPRT-1;PARP1;Cleaved PARP;PARP1

Product Information

Source Rabbit  
Isotype IgG  
Purification method Affinity purification  
Storage Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Background

This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosylation). 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.

Recommended Dilutions

<table>
<thead>
<tr>
<th>Application</th>
<th>WB</th>
<th>1:1000 - 1:3000</th>
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</thead>
<tbody>
<tr>
<td>IHC</td>
<td>1:50 - 1:200</td>
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<tr>
<td>IF</td>
<td>1:50 - 1:200</td>
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<td>IP</td>
<td>1:50 - 1:200</td>
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<tr>
<td>ChIP</td>
<td>1:50 - 1:200</td>
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Western blot analysis of extracts of various cell lines, using PARP1 antibody (A0942) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.

Immunohistochemistry of paraffin-embedded human appendix using PARP1 antibody (A0942) at dilution of 1:200 (40x lens).

Western blot analysis of extracts from normal (control) and PARP1 knockout (KO) HeLa cells, using PARP1 antibody (A0942) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.


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Immunohistochemistry of paraffin-embedded rat heart using PARP1 antibody (A0942) at dilution of 1:200 (40x lens).

Immunohistochemistry of paraffin-embedded rat spleen using PARP1 antibody (A0942) at dilution of 1:200 (40x lens).

Immunofluorescence analysis of U2OS cells using PARP1 antibody (A0942) at dilution of 1:100. Blue: DAPI for nuclear staining.

Confocal immunofluorescence analysis of U-2 OS cells using PARP1 Polyclonal Antibody (A0942) at dilution of 1:200. Blue: DAPI for nuclear staining.

Immunoprecipitation analysis of 200ug extracts of A-549 cells using 3ug PARP1 antibody (A0942). Western blot was performed from the immunoprecipitate using PARP1 antibody (A0942) at a dilution of 1:1000.