bs-55164R **[Primary Antibody]**

PARP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 142 **SWISS:** P09874

Target: PARP1

Immunogen: Recombinant human PARP1: 81-390/1014.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

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

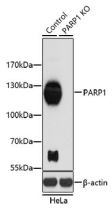
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

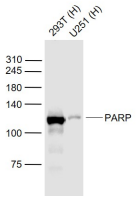
Predicted MW.: 113 kDa

Subcellular Location: Nucleus

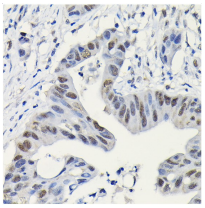
VALIDATION IMAGES



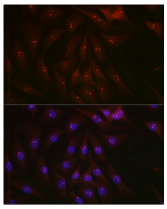
Sample: Lane 1: Hela (Human) Cell Lysate at 25 ug Lane 2: PARP1 knockout (KO) Hela (Human) Cell Lysate at 25 ug Primary: Anti-PARP1 (bs-55164R) at 1/1000 dilution Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution Predicted band size: 110 kD Observed band size: 110 kD



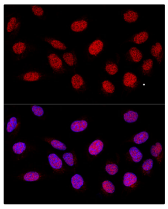
Sample: Lane 1: 293T (Human) Cell Lysate at 30 ug Lane 2: U251 (Human) Cell Lysate at 30 ug Primary: Anti-PARP (bs-55164R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 110 kD Observed band size: 110 kD



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PARP) Polyclonal Antibody, Unconjugated (bs-55164R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



NIH/3T3 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20



U2-OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20

min; Antibody incubation with (KO Validated)PARP polyclonal Antibody, Unconjugated (bs-55164R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

min; Antibody incubation with (KO Validated)PARP polyclonal Antibody, Unconjugated (bs-55164R) 1:200, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=6.291]** Haojie Li. et al. Calcium alleviates fluoride-induced kidney damage via FAS/FASL, TNFR/TNF, DR5/TRAIL pathways in rats. Ecotox Environ Safe. 2021 Dec;226:112851 WB ;Rat. 34619480
- **[IF=4.5]** Dong-Dong Wang. et al. Identification of diterpenoids from Salvia castanea Diels f. tomentosa Stib and their antitumor activities. BIOORG CHEM. 2024 Aug;:107701 WB ;Human. 39154520