bs-2138R **[Primary Antibody]**

PARP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 142 **SWISS:** P09874

Target: PARP1

Immunogen: KLH conjugated synthetic peptide derived from human PARP: 201-300/1014.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

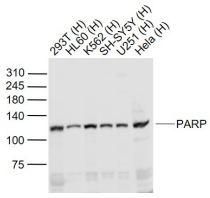
Applications: **WB** (1:500-2000)
Flow-Cyt (0.2μg/Test)

Reactivity: Human

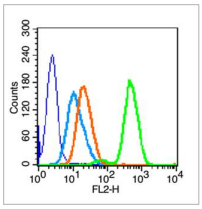
Predicted MW.: 111 kDa

Subcellular Location: Nucleus

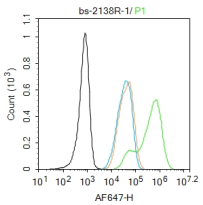
VALIDATION IMAGES



Sample: Lane 1: 293T (Human) Cell Lysate at 30 ug Lane 2: HL60 (Human) Cell Lysate at 30 ug Lane 3: K562 (Human) Cell Lysate at 30 ug Lane 4: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 5: U251 (Human) Cell Lysate at 30 ug Lane 6: Hela (Human) Cell Lysate at 30 ug Primary: Anti-PARP (bs-2138R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 115 kD Observed band size: 115 kD



Blank control (blue line): HL60 cells (blue). Primary Antibody (green line): Rabbit Anti- PARP antibody (bs-2138R) Dilution: 0.2μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1μg /test. Protocol The cells were fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:293T. Primary Antibody (green line): Rabbit Anti-PARP1 antibody (bs-2138R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=12.88]** Ma, Juan, et al. "A Crucial Role of Lateral Size for Graphene Oxide in Activating Macrophages and Stimulating Pro-inflammatory Responses in Cells and Animals." ACS nano (2015). WB ;Mouse. 26389709

- **[IF=11.508]** Qinyu Ma. et al. Osteoclast-derived apoptotic bodies couple bone resorption and formation in bone remodeling. Bone Res. 2021 Jan;9(1):1-12 WB ;Mouse. 33431863
- **[IF=6.7]** Congcong Zhang. et al. Corosolic acid inhibits EMT in lung cancer cells by promoting YAP-mediated ferroptosis. PHYTOMEDICINE. 2024 Dec;135:156110 WB ;Human. 39369568
- **[IF=6.317]** Nanqing Jing. et al. Both live and heat-killed Bifidobacterium animalis J-12 alleviated oral ulcers in LVG golden Syrian hamsters by gavage by directly intervening in the intestinal flora structure. FOOD FUNCT. 2023 Jan;: IHC ;Hamster. 36723265
- **[IF=4.925]** Yuan P et al. The nanomaterial-induced bystander effects reprogrammed macrophage immune function and metabolic profile. Nanotoxicology . 2020 Oct;14(8):1137-1155. WB ;Human. 32916084