bs-4291R **[Primary Antibody]**

BARD1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 580 **SWISS:** Q99728

Target: BARD1

Immunogen: KLH conjugated synthetic peptide derived from human BARD1: 101-200/777.

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: BRCA1 Associated RING Domain gene 1 (BARD1) interacts with the N terminal region of BRCA1. In addition to its ability to bind BRCA1 in vivo and in vitro, BARD1 shares homology with the 2 most conserved regions of BRCA1: the N terminal RING motif and the C terminal BRCT domain. The RING motif is a cysteine rich sequence found in a variety of proteins that regulate cell growth, including the products of tumor suppressor genes and dominant protooncogenes. The BARD1 protein also contains 3 tandem ankyrin repeats. The BARD1/BRCA1 interaction is disrupted by tumorigenic amino acid substitutions in BRCA1, implying that the formation of a stable complex between these proteins may be an essential aspect of BRCA1 tumor suppression. BARD1 may be the target of oncogenic mutations in breast or ovarian cancer. BARD1 also plays a role in mediating apoptotic stress and p53 dependent.

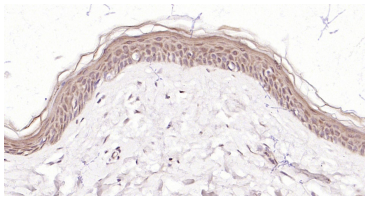
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Chicken, Dog, Horse)

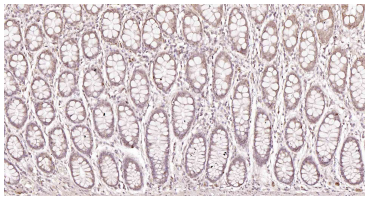
Predicted MW.: 85 kDa

Subcellular Location: Nucleus

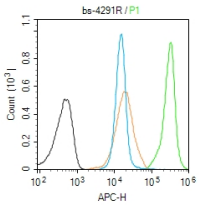
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Skin ; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with BARD1Polyclonal Antibody, Unconjugated (bs-4291R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon ; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with BARD1Polyclonal Antibody, Unconjugated (bs-4291R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Blank control (Black line): Molt4 (Black). Primary Antibody (green line): Rabbit Anti-BARD1 antibody (bs-4291R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): 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 room temperature. 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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SELECTED CITATIONS

- **[IF=5.07]** Liu, Ying, et al. "FOXK2 Transcription Factor Suppresses ERα-positive Breast Cancer Cell Growth Through Down-Regulating the Stability of ERα via mechanism involving BRCA1/BARD1." Scientific Reports 5 (2015). IP ;="Human". 25740706

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