bs-4291R

[Primary Antibody]

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BARD1 Rabbit pAb

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 85 kDa MW.:

Subcellular Nucleus Location:

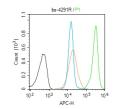
VALIDATION IMAGES



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: $1\mu g$ /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.

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