

Anti-BARD1 Antibody [PSH22-30] - BSA and Azide free

HA751858



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IP
Molecular Wt:	Predicted band size: 87 kDa
Clone number:	PSH22-30

Description: BRCA1-associated RING domain protein 1 is a protein that in humans is encoded by the BARD1 gene. Most, if not all, BRCA1 heterodimerizes with BARD1 in vivo. BARD1 and BRCA1 form a heterodimer via their N-terminal RING finger domains. The BARD1-BRCA1 interaction is observed in vivo and in vitro and is essential for BRCA1 stability. BARD1 shares homology with the two 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, and developmentally important genes such as the polycomb group of genes. The BARD1 protein also contains three tandem ankyrin repeats.

Immunogen: Recombinant protein within human BARD1 aa 1-450.

Positive control: HeLa cell lysate, Jurkat cell lysate, HEK-293 cell lysate, MDA-MB-231 cell lysate, HeLa treated with 2 μ M MG-132 for 18 hours cell lysate.

Subcellular location: Nucleus.

Database links: SwissProt: Q99728 Human

Recommended Dilutions:

WB 1:2,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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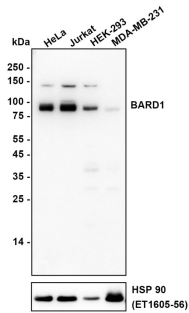
Orders:0086-571-88062880

Technical:0086-571-89986345

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Images



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Fig1: Western blot analysis of BARD1 on different lysates with Rabbit anti-BARD1 antibody (HA751858) at 1/2,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: Jurkat cell lysate
Lane 3: HEK-293 cell lysate
Lane 4: MDA-MB-231 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 87 kDa
Observed band size: 87/100 kDa

Exposure time: 42 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751858) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of BARD1 on different lysates with Rabbit anti-BARD1 antibody (HA751858) at 1/2,000 dilution.

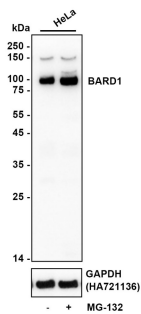
Lane 1: HeLa cell lysate
Lane 2: HeLa treated with 2µM MG-132 for 18 hours cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 87 kDa
Observed band size: 87/100 kDa

Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



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Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751858) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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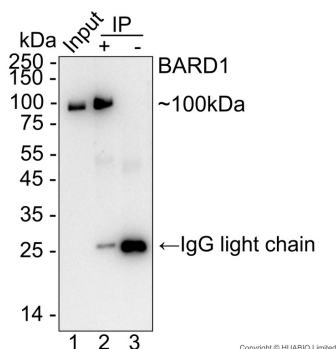


Fig3: BARD1 was immunoprecipitated from 0.2 mg HeLa cell lysate with HA751858 at 2 μ g/10 μ l beads. Western blot was performed from the immunoprecipitate using HA751858 at 1/2,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa cell lysate (input)

Lane 2: HA751858 IP in HeLa cell lysate

Lane 3: Rabbit IgG instead of HA751858 in HeLa cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)

Exposure time: 3 minutes; ECL: K1801

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Witus SR et al. BRCA1/BARD1 is a nucleosome reader and writer. Trends Biochem Sci. 2022 Jul
2. Hawsawi YM et al. BARD1 mystery: tumor suppressors are cancer susceptibility genes. BMC Cancer. 2022 Jun

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