

Recombinant Full Length Human BARD1 Protein, Fc tagged

Cat. No. BARD1-03HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human BARD1 Protein with Fc tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a protein which interacts with the N-terminal region of BRCA1. In addition to its ability to bind BRCA1 in vivo and in vitro, it 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. This 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. This protein may be the target of oncogenic mutations in breast or ovarian cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	The protein has a calculated MW of 113 kDa.
AA Sequence	MPDNRQPRNRQPRIRSGNEPR SAPAMEPDGRGAWAHSRAALDRLEKLLRCSRCT NILREPVCLGGCEHIFCSNCVSDCIGTGCPVCYTPAWIQDLKINRQLDSMIQLCSKLR NLLHDNELSDLKEDKPRKSLFNDAGNKKNSIKMWFSRKKVRYVVS KASVQTQPAI

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KKDASAAQDSYEFVSPSPPADVSERAKKASARSGKKQKKKTLAEINQKWNLEAEKE
 DGEFDSKEESKQKLVSFCSQPSVISSPQINGEIDLLASGSLTESECFGSLTEVSLPLA
 EQIESPDTKSRNEVVTPEKVCKNYLTSKKSLPLENNGKRGHHNRLSSPISKRCRTSIL
 STSGDFVKQTVPSENIPLPECSSPPSCKRKVGGTSGRKNSNMSDEFISLSPGTPPST
 LSSSSYRRVMSSPSAMKLLPNMAVKRNHRGETLLHIASIKGDIPSVEYLLQNGSDPN
 VKDHAGWTPLEACNHGHLKVVELLLQHKALVNTTGYQNDSPLDAAKNGHVDIVK
 LLLSYGASRNAVNIFGLRPVDYTDDESMKSLLLLPEKNESSSASHCSVMNTGQRRD
 GPLVLIGSGLSSEQQKMLSELAVILKAKKYTEFDSTVTHVVVPGDAVQSTLKCMLGIL
 NGCWILKFEWVKACLRKVCQEKEYEIEGPRRSRLNREQLLPKLFDGCYFYLWG
 TFKHHPKDNLIKLVTAGGGQILSRKPKPDSVDTQTINTVAYHARPDSDQRFCTQYIIY
 EDLCNYHPERVRQGKVKAPSSWFIDCVMSFELLPLDSGGGGSGGGGSGGGGSE
 PKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEV
 KFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKAL
 PAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNG
 QPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKS
 LSLSPGK

Purity > 80% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.44 mg/mL by BCA

Storage Buffer Sterile PBS, pH 7.4, 1% SKL

Full Length Full L.

GENE INFORMATION

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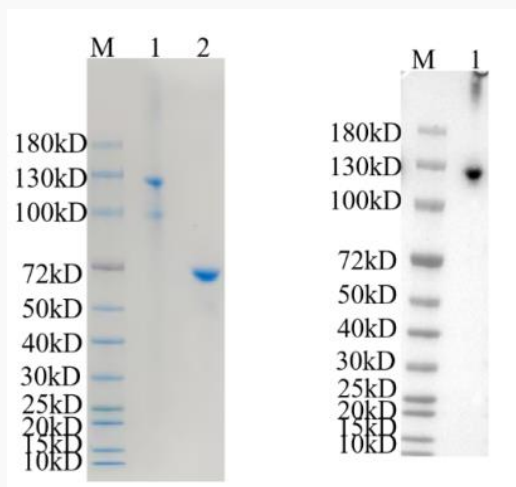
Gene Name	BARD1 BRCA1 associated RING domain 1 [Homo sapiens (human)]
Official Symbol	BARD1
Synonyms	BARD1; BRCA1 associated RING domain 1; BRCA1-associated RING domain protein 1; BARD-1; BRCA1-associated RING domain gene 1; BRCA1 associated RING domain 1 isoform eta; BRCA1 associated RING domain 1 isoform phi; BRCA1 associated RING domain 1 isoform alfa; BRCA1 associated RING domain 1 isoform beta; BRCA1 associated RING domain 1 isoform delta; BRCA1 associated RING domain 1 isoform gamma; BRCA1 associated RING domain 1 isoform epsilon
Gene ID	580
mRNA Refseq	NM_000465
Protein Refseq	NP_000456
MIM	601593
UniProt ID	Q99728

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Reducing 12% SDS-PAGE (CBB stained) and WB (Goat Anti-Human IgG Antibody) analysis profiles of purified BARD1.



1. BARD1
2. BSA

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