

Recombinant Human BARD1

Cat. No. BARD1-26645TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 658-757 of Human BARD1, with an N-terminal proprietary tag, predicted MWt 36.63 kDa
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RRSRLNREQLLPKLFDCGYFYLVGTFKHHPKDNLIKLVTAGGGQILSRKPKPDSVD QTINTVAYHARPDSDQRFCTQYIIYEDLCNYHPERVRQGKVK
Sequence Similarities	Contains 4 ANK repeats.Contains 2 BRCT domains.Contains 1 RING-type zinc finger.

GENE INFORMATION

Gene Name	BARD1 BRCA1 associated RING domain 1 [Homo sapiens]
Official Symbol	BARD1
Synonyms	BARD1; BRCA1 associated RING domain 1; BRCA1-associated RING domain protein 1;
Gene ID	580
mRNA Refseq	NM_000465
Protein Refseq	NP_000456
MIM	601593
Uniprot ID	Q99728
Chromosome Location	2q34-q35

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Pathway	BARD1 signaling events, organism-specific biosystem;
Function	RNA binding; kinase binding; ligase activity; metal ion binding; protein binding;