

# Recombinant Human BARD1

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

## SPECIFICATION

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

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BARD1 BRCA1 associated RING domain 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">BARD1</a>
<b>Synonyms</b>	BARD1; BRCA1 associated RING domain 1; BRCA1-associated RING domain protein 1;
<b>Gene ID</b>	<a href="#">580</a>
<b>mRNA Refseq</b>	<a href="#">NM_000465</a>
<b>Protein Refseq</b>	<a href="#">NP_000456</a>
<b>MIM</b>	<a href="#">601593</a>
<b>Uniprot ID</b>	<a href="#">Q99728</a>
<b>Chromosome Location</b>	2q34-q35

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

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