



Human BARD1 peptide (DAG-P0065)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Sep 2013]
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Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 4 ANK repeats.Contains 2 BRCT domains.Contains 1 RING-type zinc finger.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

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; BRCA1-associated RING domain gene 1;
Entrez Gene ID	580
mRNA Refseq	NM_000465.3
Protein Refseq	NP_000456.2
UniProt ID	A0AVN2
Chromosome Location	2q34-q35
Pathway	BARD1 signaling events, organism-specific biosystem; Integrated Breast Cancer Pathway, organism-specific biosystem; Integrated Cancer pathway, organism-specific biosystem; Prostate Cancer, organism-specific biosystem; RB in Cancer, organism-specific biosystem;
Function	RNA binding; kinase binding; protein binding; protein heterodimerization activity; protein homodimerization activity; contributes_to ubiquitin-protein ligase activity; ubiquitin-protein ligase activity; zinc ion binding;