# BRCC3 Peptide - Middle Region Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | BRCC3, Blocking Peptide |
| **Full Product Name** | BRCC3 Peptide - middle region |
| **Product Gene Name** | BRCC3 blocking peptide |
| **Product Synonym Gene Name** | C6.1A; BRCC36; CXorf53 |
| **Sequence** | Synthetic peptide located within the following region: VRIVHIHSVI ILRRSDKRKD RVEISPEQLS AASTEAERLA ELTGRPMRVV |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Preparation and Storage** | Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | BRCC3 peptide (MBS3247963) is used for blocking the activity of BRCC3 antibody (MBS3223320) |
| **Molecular Weight** | 34 kDa |
| **OMIM** | 300617 |
| **Product Categories/Family for BRCC3 blocking peptide** | Peptide |
| **Related Product Information for BRCC3 blocking peptide** | This is a synthetic peptide designed for use in combination with anti- BRCC3 Antibody, made<br><br>Target Description: This gene encodes a subunit of the BRCA1-BRCA2-containing complex (BRCC), which is an E3 ubiquitin ligase. This complex plays a role in the DNA damage response, where it is responsible for the stable accumulation of BRCA1 at DNA break sites. The component encoded by this gene can specifically cleave Lys 63-linked polyubiquitin chains, and it regulates the abundance of these polyubiquitin chains in chromatin. The loss of this gene results in abnormal angiogenesis and is associated with syndromic moyamoya, a cerebrovascular angiopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 5. |
| **Other Notes** | Small volumes of BRCC3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for BRCC3 purchase** | MBS3247963 is a blocking peptide targeting BRCC3. Also known as BRCC3 Peptide - middle region. Reactive in Human. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRCC3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 64762484 |
| **NCBI GeneID** | 79184 |
| **NCBI Accession #** | NP_001018065.1 |
| **UniProt Primary Accession #** | P46736 |
| **UniProt Related Accession #** | P46736 |
| **GenBank Nucleotide #** | NM_001018055.2 |

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| **NCBI Official Full Name** | lys-63-specific deubiquitinase BRCC36 isoform 2 |
| **NCBI Official Synonym Full Names** | BRCA1/BRCA2-containing complex subunit 3 |
| **NCBI Official Symbol** | BRCC3 |
| **NCBI Official Synonym Symbols** | C6.1A; BRCC36; CXorf53 |
| **UniProt Protein Name** | Lys-63-specific deubiquitinase BRCC36 |
| **UniProt Synonym Protein Names** | BRCA1-A complex subunit BRCC36; BRCA1/BRCA2-containing complex subunit 3; BRCA1/BRCA2-containing complex subunit 36; BRISC complex subunit BRCC36 |
| **Protein Family** | Lys-63-specific deubiquitinase |
| **UniProt Gene Name** | BRCC3 |
| **UniProt Synonym Gene Names** | BRCC36; C6.1A; CXorf53 |
| **UniProt Entry Name** | BRCC3_HUMAN |
| **NCBI Protein Information** | lys-63-specific deubiquitinase BRCC36 |
| **NCBI Summary for BRCC3** | This gene encodes a subunit of the BRCA1-BRCA2-containing complex (BRCC), which is an E3 ubiquitin ligase. This complex plays a role in the DNA damage response, where it is responsible for the stable accumulation of BRCA1 at DNA break sites. The component encoded by this gene can specifically cleave Lys 63-linked polyubiquitin chains, and it regulates the abundance of these polyubiquitin chains in chromatin. The loss of this gene results in abnormal angiogenesis and is associated with syndromic moyamoya, a cerebrovascular angiopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 5. [provided by RefSeq, Jun 2011] |
| **UniProt Comments for BRCC3** | BRCC3: Metalloprotease that specifically cleaves 'Lys-63'- linked polyubiquitin chains. Does not have activity toward 'Lys- 48'-linked polyubiquitin chains. Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). In the BRCA1-A complex, it specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX, antagonizing the RNF8-dependent ubiquitination at double- strand breaks (DSBs). Catalytic subunit of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates. Mediates the specific 'Lys-63'- specific deubiquitination associated with the COP9 signalosome complex (CSN), via the interaction of the BRISC complex with the CSN complex. A chromosomal aberration involving BRCC3 is a cause of pro-lymphocytic T-cell leukemia (T-PLL). Translocation t(X;14)(q28;q11) with TCRA. Belongs to the peptidase M67A family. BRCC36 subfamily. 5 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Ubiquitin conjugating system; Oncoprotein; EC 3.4.19.-; Ubiquitin-specific protease<br><br>Chromosomal Location of Human Ortholog: Xq28<br><br>Cellular Component: nucleoplasm; nuclear ubiquitin ligase complex; nucleus; ubiquitin ligase complex<br><br>Molecular Function: protein binding; metallopeptidase activity; metal ion binding; ubiquitin-specific protease activity; polyubiquitin binding; enzyme regulator activity<br><br>Biological Process: positive regulation of DNA repair; regulation of catalytic activity; double-strand break repair; response to ionizing radiation; G2/M transition DNA damage checkpoint; proteolysis; response to X-ray |
| **Research Articles on BRCC3** | **1.** Knockdown of BRCC3 in HeLa and SiHa cervical cancer cells revealed that BRCC3 interference inhibited the viability, in addition to the invasion and migration abilities, of cervical cancer cells via regulation of Snai family members and MMPs, which subsequently inhibit the progress of EMT. |
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