Phospho-BRCA2 (Ser2095) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	BRCA2, Blocking Peptide
Full Product Name	Phospho-BRCA2 (Ser2095) Blocking Peptide
Product Gene Name	BRCA2 blocking peptide
Product Synonym Names	BRCA 2; BRCA1/BRCA2 containing complex subunit 2; Brca2; BRCA2, DNA repair associated; BRCA2_HUMAN; BRCC 2; BRCC2; Breast and ovarian cancer susceptibility gene early onset; breast and ovarian cancer susceptibility protein 2; Breast cancer 2 early onset; Breast Cancer 2 tumor suppressor; Breast cancer susceptibility protein BRCA2; Breast cancer type 2 susceptibility protein; BROVCA2; FACD; FAD 1; FAD; FAD1; FANCB; FANCD 1; FANCD; FANCD1; FANCD1 gene; Fanconi anemia complementation group D1; Fanconi anemia group D1 protein; GLM3; mutant BRCA2; OTTHUMP00000018803; OTTHUMP00000042401; PNCA2; XRCC11
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BRCA2 (Ser2095) peptide (MBS9618397) is used for blocking the activity of BRCA2 (Ser2095) antibody (MBS9610679)
Molecular Weight	384,225 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (32889617..32973809). Location: 13q12.3
OMIM	114480
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BRCA2 blocking peptide	Blocking/Control
Related Product Information for BRCA2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of BRCA2 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 BRCA2 purchase	MBS9618397 is a blocking peptide targeting BRCA2. Also known as Phospho-BRCA2 (Ser2095) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRCA2. It may not necessarily be applicable to this product.

NCBI GI #	119395734

NCBI GeneID	675
NCBI Accession #	NP_000050.2
UniProt Primary Accession #	P51587
UniProt Secondary Accession #	O00183; O15008; Q13879; Q5TBJ7
UniProt Related Accession #	P51587
GenBank Nucleotide #	NP_000050.2
NCBI Official Full Name	breast cancer type 2 susceptibility protein
NCBI Official Synonym Full Names	breast cancer 2, early onset
NCBI Official Symbol	BRCA2
NCBI Official Synonym Symbols	FAD; FACD; FAD1; GLM3; BRCC2; FANCB; FANCD; PNCA2; FANCD1; BROVCA2
UniProt Protein Name	Breast cancer type 2 susceptibility protein
UniProt Synonym Protein Names	Fanconi anemia group D1 protein
Protein Family	Breast cancer type 2 susceptibility protein
UniProt Gene Name	BRCA2
UniProt Synonym Gene Names	FACD; FANCD1
UniProt Entry Name	BRCA2_HUMAN
NCBI Protein Information	breast cancer type 2 susceptibility protein; fanconi anemia group D1 protein; breast cancer 2 tumor suppressor; BRCA1/BRCA2-containing complex, subunit 2; breast and ovarian cancer susceptibility gene, early onset; truncated breast and ovarian cancer susc
NCBI Summary for BRCA2	Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele. [provided by RefSeq, Dec 2008]

UniProt Comments for BRCA2	BRCA2: involved in double-strand break repair and/or homologous recombination. May participate in S phase checkpoint activation. Interacts with RAD51 and DSS1. Interacts with ubiquitinated FANCD2. Interacts with PALB2, enables the recombinational repair and checkpoint functions. Interacts with WDR16. Defects in BRCA2 are a cause of genetic susceptibility to breast cancer and may underlie susceptibility to uveal melanoma. Protein type: Nuclear receptor co-regulator; DNA repair, damage; Tumor suppressor Chromosomal Location of Human Ortholog: 13q12.3 Cellular Component: nucleoplasm; centrosome; protein complex; cytoplasm; BRCA2-MAGE-D1 complex; nucleus; secretory granule Molecular Function: H4 histone acetyltransferase activity; protein binding; gamma-tubulin binding; histone acetyltransferase activity; protease binding; H3 histone acetyltransferase activity; single-stranded DNA binding Biological Process: positive regulation of transcription, DNA-dependent; cytokinesis; cell aging; positive regulation of mitotic cell cycle; DNA repair; inner cell mass cell proliferation; regulation of cytokinesis; oocyte maturation; response to UV-C; double-strand break repair via homologous recombination; negative regulation of mammary gland epithelial cell proliferation; DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator; male meiosis I; nucleotide-excision repair; double-strand break repair; response to gamma radiation; hemopoiesis; spermatogenesis; replication fork protection; brain development; centrosome duplication; DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis; female gonad development; response to X-ray Disease: Pancreatic Cancer, Susceptibility To, 2; Breast-ovarian Cancer, Familial, Susceptibility To, 2; Breast Cancer; Medulloblastoma; Prostate Cancer; Glioma Susceptibility 3; Tracheoesophageal Fistula With Or Without Esophageal Atresia; Fanconi Anemia, Complementation Group D1; Wilms Tumor 1
Research Articles on BRCA2	**1.** This comprehensive update of novel and previously reported breast cancer susceptibility loci contributes to the establishment of a panel of SNPs that modify breast cancer risk in BRCA2 mutation carriers
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/brca2/9618397