# BCAR3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

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| **Product Name** | BCAR3, Blocking Peptide |
| **Full Product Name** | BCAR3 Blocking Peptide |
| **Product Gene Name** | BCAR3 blocking peptide |
| **Product Synonym Names** | BCAR 3; BCAR3; BCAR3_HUMAN; Breast cancer anti estrogen resistance 3; Breast cancer anti estrogen resistance protein 3; Breast cancer anti-estrogen resistance protein 3; Breast cancer antiestrogen resistance 3; dJ1033H22.2; dJ1033H22.2 breast cancer anti estrogen resistance 3; dJ1033H22.2 breast cancer antiestrogen resistance 3; KIAA0554; Novel SH2 containing protein 2; Novel SH2-containing protein 2; NSP 2; NSP2; SH2 containing protein Nsp2; SH2 domain containing protein 3B; SH2 domain-containing protein 3B; SH2D3B |
| **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** | BCAR3 peptide (MBS9614967) is used for blocking the activity of BCAR3 antibody (MBS9600414) |
| **Molecular Weight** | 92,566 Da |
| **Chromosome Location** | Chromosome: 1; NC_000001.10 (94027343..94312706, complement). Location: 1p22.1 |
| **OMIM** | 604704 |
| **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 BCAR3 blocking peptide** | Blocking/Control |
| **Related Product Information for BCAR3 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 BCAR3 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 BCAR3 purchase** | MBS9614967 is a blocking peptide targeting BCAR3. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BCAR3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 387157906 |
| **NCBI GeneID** | 8412 |
| **NCBI Accession #** | NP_001248337.1 |

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| **UniProt Primary Accession #** | O75815 |
| **UniProt Secondary Accession #** | Q5TEW3; Q6UW40; Q9BR50; D3DT43 |
| **UniProt Related Accession #** | O75815 |
| **GenBank Nucleotide #** | NM_001261408.1 |
| **NCBI Official Full Name** | breast cancer anti-estrogen resistance protein 3 isoform 1 |
| **NCBI Official Synonym Full Names** | breast cancer anti-estrogen resistance 3 |
| **NCBI Official Symbol** | BCAR3 |
| **NCBI Official Synonym Symbols** | NSP2; SH2D3B |
| **UniProt Protein Name** | Breast cancer anti-estrogen resistance protein 3 |
| **UniProt Synonym Protein Names** | Novel SH2-containing protein 2; SH2 domain-containing protein 3B |
| **Protein Family** | Breast cancer anti-estrogen resistance protein |
| **UniProt Gene Name** | BCAR3 |
| **UniProt Synonym Gene Names** | NSP2; SH2D3B |
| **UniProt Entry Name** | BCAR3_HUMAN |
| **NCBI Protein Information** | breast cancer anti-estrogen resistance protein 3; novel SH2-containing protein 2; SH2 domain-containing protein 3B; breast cancer antiestrogen resistance 3 protein; dJ1033H22.2 (breast cancer anti-estrogen resistance 3) |
| **NCBI Summary for BCAR3** | Breast tumors are initially dependent on estrogens for growth and progression and can be inhibited by anti-estrogens such as tamoxifen. However, breast cancers progress to become anti-estrogen resistant. Breast cancer anti-estrogen resistance gene 3 was identified in the search for genes involved in the development of estrogen resistance. The gene encodes a component of intracellular signal transduction that causes estrogen-independent proliferation in human breast cancer cells. The protein contains a putative src homology 2 (SH2) domain, a hall mark of cellular tyrosine kinase signaling molecules, and is partly homologous to the cell division cycle protein CDC48. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012] |
| **UniProt Comments for BCAR3** | BCAR3: a ubiquitously expressed regulator of R-Ras activity that has been implicated in breast cancer. A GDP exchange factor whose overexpression confers antiestrogen resistance, activates Rac, PAK1, and the cyclin D1. Can accelerate the degradation of IRS-1, thus regulating signaling through the insulin receptor. When overexpressed, it confers anti-estrogen resistance in breast cancer cell lines. May also be regulated by cellular adhesion to extracellular matrix proteins. Up-regulated by interleukin-1-alpha and TNF-beta in thymus cortical reticular cell lines (mouse).Two alternatively spliced human isoforms have been described.<br><br>Protein type: GEFs, Ras; GEFs; Motility/polarity/chemotaxis; Adaptor/scaffold<br><br>Chromosomal Location of Human Ortholog: 1p22.1<br><br>Molecular Function: protein binding; guanyl-nucleotide exchange factor activity<br><br>Biological Process: response to drug; small GTPase mediated signal transduction; lens morphogenesis in camera-type eye; signal transduction; positive regulation of peptidyl-serine phosphorylation; positive regulation of GTPase activity |
| **Research Articles on BCAR3** | **1.** BCAR3 expression may regulate Src signaling in a BCAR3-p130(cas) complex-dependent fashion by altering the ability of the Src SH3 domain to bind the p130(cas) SBD |
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