# STK17B Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | STK17B, Blocking Peptide |
| **Full Product Name** | STK17B Blocking Peptide |
| **Product Gene Name** | STK17B blocking peptide |
| **Product Synonym Names** | DAP kinase related apoptosis inducing protein; DAP kinase related apoptosis inducing protein kinase 2; DAP kinase-related apoptosis-inducing protein kinase 2; Death associated protein kinase related 2; DRAK 2; DRAK2; Serine/threonine kinase 17b; Serine/threonine kinase 17b apoptosis inducing; Serine/threonine protein kinase 17B; Serine/threonine-protein kinase 17B; ST17B_HUMAN; STK 17B; Stk17b |
| **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** | STK17B peptide (MBS9624948) is used for blocking the activity of STK17B antibody (MBS9606231) |
| **Molecular Weight** | 42,344 Da |
| **Chromosome Location** | Chromosome: 2; NC_000002.11 (196998307..197036336, complement). Location: 2q32.3 |
| **OMIM** | 604727 |
| **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 STK17B blocking peptide** | Blocking/Control |
| **Related Product Information for STK17B 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 STK17B 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 STK17B purchase** | MBS9624948 is a blocking peptide targeting STK17B. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STK17B. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 4758194 |
| **NCBI GeneID** | 9262 |
| **NCBI Accession #** | NP_004217.1 |

| | |
|---|---|
| **UniProt Primary Accession #** | O94768 |
| **UniProt Related Accession #** | O94768 |
| **GenBank Nucleotide #** | NM_004226.3 |
| **NCBI Official Full Name** | serine/threonine-protein kinase 17B |
| **NCBI Official Synonym Full Names** | serine/threonine kinase 17b |
| **NCBI Official Symbol** | STK17B |
| **NCBI Official Synonym Symbols** | DRAK2 |
| **UniProt Protein Name** | Serine/threonine-protein kinase 17B |
| **UniProt Synonym Protein Names** | DAP kinase-related apoptosis-inducing protein kinase 2 |
| **Protein Family** | Serine/threonine-protein kinase |
| **UniProt Gene Name** | STK17B |
| **UniProt Synonym Gene Names** | DRAK2 |
| **UniProt Entry Name** | ST17B_HUMAN |
| **NCBI Protein Information** | serine/threonine-protein kinase 17B; death-associated protein kinase-related 2; DAP kinase-related apoptosis-inducing protein kinase 2 |
| **UniProt Comments for STK17B** | DRAK2: a calmodulin-dependent kinase of the DAPK family. Interacts with and is regulated by calcineurin homologous protein (CHP), an EF-hand Ca(2+)-binding protein. In vitro, CHP inhibits the apoptosis-inducing protein kinase DRAK2 in the presence of elevated Ca(2+) levels. Highly expressed in placenta, lung, pancreas. Lower levels in heart, brain, liver, skeletal muscle and kidney.<br><br>Protein type: Protein kinase, CAMK; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.1; CAMK group; DAPK family<br><br>Chromosomal Location of Human Ortholog: 2q32.3<br><br>Cellular Component: plasma membrane; ER-Golgi intermediate compartment; nucleus; actin cytoskeleton<br><br>Molecular Function: protein serine/threonine kinase activity; ATP binding; protein kinase activity<br><br>Biological Process: apoptosis; protein amino acid autophosphorylation; protein amino acid phosphorylation |
| **Research Articles on STK17B** | **1.** ChIP assays showed that in U937 cells MYB binds to a conserved element upstream of the DRAK2 transcription start site. |
| **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.<br><br>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/stk17b/9624948