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

PRODUCT OVERVIEW

Product Name	QSK, Blocking Peptide
Full Product Name	QSK Blocking Peptide
Product Gene Name	QSK blocking peptide
Product Synonym Gene Name	SIK3
Product Synonym Names	FLJ12240; KIAA0999; L19; QSK; Salt inducible kinase 3; serine/threonine-protein kinase QSK; Serine/threonine-protein kinase SIK3; SIK 3; SIK family kinase 3; SIK3_HUMAN
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	QSK peptide (MBS9619669) is used for blocking the activity of QSK antibody (MBS9602215)
Molecular Weight	138,586 Da
OMIM	614776
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 QSK blocking peptide	Blocking/Control
Related Product Information for QSK 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 QSK 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 QSK purchase	MBS9619669 is a blocking peptide targeting QSK.

ADDITIONAL DETAILS

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

NCBI GI #	528524622
NCBI GeneID	23387
NCBI Accession #	NP_001268678.1
UniProt Primary Accession #	Q9Y2K2
UniProt Secondary Accession #	Q59FY2; Q5M9N1; Q6P3R6; Q8IYM8; Q9HA50; A1A5A8; H0Y494; J3KPC8

UniProt Related Accession #	Q9Y2K2
GenBank Nucleotide #	NM_001281749.2
NCBI Official Full Name	serine/threonine-protein kinase SIK3 isoform 3
NCBI Official Synonym Full Names	SIK family kinase 3
NCBI Official Symbol	SIK3
NCBI Official Synonym Symbols	L19; QSK; SIK-3
UniProt Protein Name	Serine/threonine-protein kinase SIK3
UniProt Synonym Protein Names	Salt-inducible kinase 3; SIK-3; Serine/threonine-protein kinase QSK
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	SIK3
UniProt Synonym Gene Names	KIAA0999; QSK; SIK-3
UniProt Entry Name	SIK3_HUMAN
NCBI Protein Information	serine/threonine-protein kinase SIK3
UniProt Comments for QSK	Catalytic activity: ATP + a protein = ADP + a phosphoprotein. Cofactor: Magnesium. Enzyme regulation: Activated by phosphorylation on Thr-163 By similarity. Ref.1 Subunit structure: Binds to and is activated by YWHAZ when phosphorylated on Thr-163. Ref.8 Subcellular location: Cytoplasm. Note: Locates to punctate structures within the cytoplasm on binding to YWHAZ. Ref.8 Post-translational modification: Phosphorylated at Thr-163 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39. Ref.1 Sequence similarities: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.Contains 1 protein kinase domain.Contains 1 UBA domain. Sequence caution: The sequence AAT06749.1 differs from that shown. Reason: Erroneous initiation. The sequence BAA76843.2 differs from that shown. Reason: Erroneous initiation. The sequence BAB14006.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on QSK	**1.** role in mediating high salt and IL-17 synergy leading to breast cancer cell proliferation
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.
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