TSSK4 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TSSK4, Blocking Peptide
Full Product Name	TSSK4 Antibody (C-term) Blocking peptide
Product Gene Name	TSSK4 blocking peptide
Product Synonym Gene Name	C14orf20; STK22E; TSSK5
Product Synonym Names	Testis-specific serine/threonine-protein kinase 4; TSK-4; TSSK-4; Testis-specific kinase 4; Serine/threonine-protein kinase 22E; TSSK4; C14orf20; STK22E; TSSK5
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 1 mg/ml.
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	TSSK4 peptide (MBS9218257) is used for blocking the activity of TSSK4 antibody (MBS9212236)
Molecular Weight	29,034 Da
OMIM	610711
Tissue Location	Expressed only in the testis.
Related Product Information for TSSK4 blocking peptide	May be involved in a signaling pathway during male germ cell development or mature sperm function (By similarity). Phosphorylates CREB1 on Ser-133 and stimulates downstream signaling.
Other Notes	Small volumes of TSSK4 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 TSSK4 purchase	MBS9218257 is a blocking peptide targeting TSSK4. Also known as TSSK4 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSSK4. It may not necessarily be applicable to this product.

NCBI GI #	62287888
NCBI GeneID	283629
NCBI Accession #	Q6SA08.1
UniProt Primary Accession #	Q6SA08
UniProt Secondary Accession #	Q2TA60; Q6ZNM2
UniProt Related Accession #	Q6SA08
NCBI Official Full Name	Testis-specific serine/threonine-protein kinase 4
NCBI Official Synonym Full Names	testis specific serine kinase 4
NCBI Official Symbol	TSSK4
NCBI Official Synonym Symbols	TSK4; TSK-4; TSSK5; STK22E; C14orf20
UniProt Protein Name	Testis-specific serine/threonine-protein kinase 4
UniProt Synonym Protein Names	Serine/threonine-protein kinase 22E

Protein Family	Testis-specific serine/threonine-protein kinase
UniProt Gene Name	TSSK4
UniProt Synonym Gene Names	C14orf20; STK22E; TSSK5; TSK-4; TSSK-4; Testis-specific kinase 4
UniProt Entry Name	TSSK4_HUMAN
NCBI Protein Information	testis-specific serine/threonine-protein kinase 4
NCBI Summary for TSSK4	This gene encodes a member of the testis-specific serine/threonine kinase family. The encoded protein is thought to be involved in spermatogenesis via stimulation of the CREB/CRE responsive pathway through phosphorylation of the cAMP responsive element binding protein transcription factor. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]
UniProt Comments for TSSK4	TSSK4: May be involved in a signaling pathway during male germ cell development or mature sperm function. Phosphorylates CREB1 on Ser-133 and stimulates downstream signaling. Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, CAMK; Kinase, protein; EC 2.7.11.1; CAMK group; TSSK family Chromosomal Location of Human Ortholog: 14q12 Cellular Component: cytoplasm; nucleus Molecular Function: ATP binding; magnesium ion binding; protein binding; protein serine/threonine kinase activity Biological Process: activation of CREB transcription factor; protein amino acid phosphorylation
Research Articles on TSSK4	**1.** TSSK4 was able to induce cell apoptosis in vitro depending on its kinase activity, which leads to abnormal testes weight and apoptosis, shedding light on its function in the process of spermatogenesis and/or spermiogenesis
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