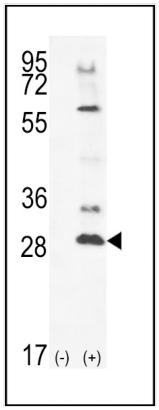
TSSK4 Antibody – Rabbit Polyclonal

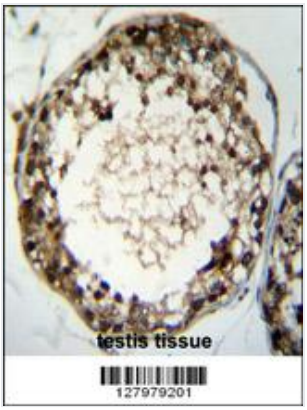
PRODUCT OVERVIEW

Product Name	TSSK4, Polyclonal Antibody
Full Product Name	TSSK4 Antibody (C-term)
Product Gene Name	anti-TSSK4 antibody
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
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Mouse)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This TSSK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 226-254 amino acids from the C-terminal region of human TSSK4.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	TSSK4 peptide (MBS9218257) is used for blocking the activity of TSSK4 antibody (MBS9212236)
Molecular Weight	37454
Immunogen Sequence Positions	226-254
OMIM	610711
3D Structure	ModBase 3D Structure for Q6SA08
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Applications Tested/Suitable for anti-TSSK4 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-TSSK4 antibody	WB~~1:1000
Related Product Information for anti-TSSK4 antibody	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.

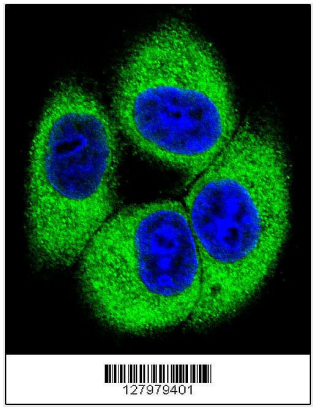
Product References and Citations for anti-TSSK4 antibody	Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010) Su, D., et al. J. Androl. 29(4):374-378(2008) Zeng, M., et al. BMB Rep 41(4):300-304(2008) Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Chen, X., et al. Biochem. Biophys. Res. Commun. 333(3):742-749(2005)
Other Notes	Small volumes of anti-TSSK4 antibody 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	MBS9212236 is an antibody targeting TSSK4. Also known as TSSK4 Antibody (C-term). Reactive in Human (Predicted Reactivity: Mouse). Host: Rabbit.



Western Blot (WB) of anti-TSSK4 antibody
Western blot analysis of TSSK4 (arrow) using rabbit polyclonal TSSK4 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TSSK4 gene.



Immunohistochemistry (IHC) of anti-TSSK4 antibody
TSSK4 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TSSK4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-TSSK4 antibody
Confocal immunofluorescent analysis of TSSK4 Antibody (C-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

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

NCBI GI #	296317364
NCBI GeneID	283629
NCBI Accession #	NP_001171668.1
NCBI Related Accession #	NP_777604.2
UniProt Primary Accession #	Q6SA08

UniProt Secondary Accession #	Q2TA60; Q6ZNM2
UniProt Related Accession #	Q6SA08
GenBank Nucleotide #	NM_001184739.1
NCBI Official Full Name	testis-specific serine/threonine-protein kinase 4 isoform 1
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, CAMK; EC 2.7.11.1; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); CAMK group; TSSK family Chromosomal Location of Human Ortholog: 14q12 Molecular Function: protein serine/threonine kinase activity; protein binding; magnesium ion binding; ATP binding Biological Process: multicellular organismal development; activation of CREB transcription factor; regulation of signal transduction; spermatogenesis; cell differentiation; protein amino acid phosphorylation
Research Articles on TSSK4	**1.** association of some single nucleotide polymorphisms in TSSK4 with male infertility.
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