

TSSK4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11247b

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q6SA08
Other Accession	Q9D411 , NP_777604.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27979
Calculated MW	37454
Antigen Region	226-254

Additional Information

Gene ID	283629
Other 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
Target/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.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
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.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TSSK4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TSSK4 (HGNC:19825)
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Function	Serine/threonine kinase which is involved in male germ cell development and in mature sperm function (By similarity). May be involved in the Cre/Creb signaling pathway (By similarity). Phosphorylates CREB1 on 'Ser-133' in vitro and can stimulate Cre/Creb pathway in cells (PubMed: 15964553). Phosphorylates CREM on 'Ser-116' in vitro (By similarity). Phosphorylates ODF2 on 'Ser-95' (By similarity).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250 UniProtKB:Q9D411}. Cell projection, cilium, flagellum {ECO:0000250 UniProtKB:Q9D411}. Note=In spermatozoa, present in the sperm head and in the flagellum. {ECO:0000250 UniProtKB:Q9D411}
Tissue Location	Expressed only in the testis.

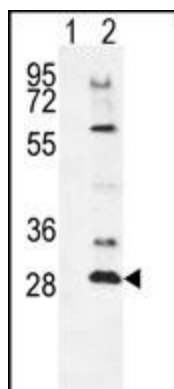
Background

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.

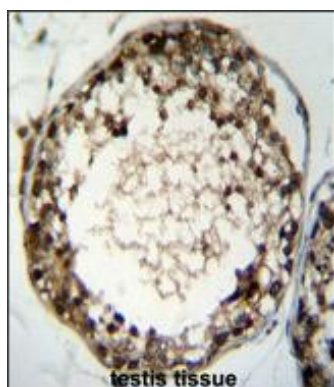
References

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)

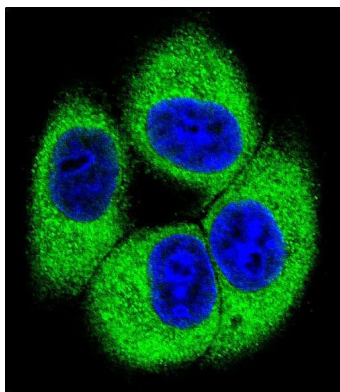
Images



Western blot analysis of TSSK4 (arrow) using rabbit polyclonal TSSK4 Antibody (C-term) (Cat. #AP11247b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TSSK4 gene.



TSSK4 Antibody (C-term) (Cat. #AP11247b) 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.



Confocal immunofluorescent analysis of TSSK4 Antibody (C-term)(Cat#AP11247b) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.