

**TESK1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10090c****Specification**

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**TESK1 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [Q15569](#)  
Other Accession [NP\\_006276.2](#)

**TESK1 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 7016

**Other Names**

Dual specificity testis-specific protein kinase 1, Testicular protein kinase 1, TESK1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TESK1 Antibody (Center) Blocking peptide - Protein Information**

**Name** TESK1

**Function**

Dual specificity protein kinase activity catalyzing autophosphorylation and phosphorylation of exogenous substrates on both serine/threonine and tyrosine residues (By similarity). Regulates the cellular cytoskeleton by enhancing actin stress fiber formation via phosphorylation of cofilin and by preventing microtubule breakdown via inhibition of TAOK1/MARKK kinase activity (By similarity). Inhibits podocyte motility via regulation of actin cytoskeletal dynamics and phosphorylation of CFL1 (By similarity). Positively regulates integrin-mediated cell spreading, via phosphorylation of cofilin (PubMed:<a href="http://www.uniprot.org/citations/15584898" target="\_blank">15584898</a>). Suppresses ciliogenesis via multiple pathways; phosphorylation of CFL1, suppression of ciliary vesicle directional trafficking to the ciliary base, and by facilitating YAP1 nuclear localization where it acts as a transcriptional corepressor of the TEAD4 target genes AURKA and PLK1 (PubMed:<a href="http://www.uniprot.org/citations/25849865" target="\_blank">25849865</a>). Probably plays a central role at and after the meiotic phase of spermatogenesis (By similarity).

**Cellular Location**

Cytoplasm. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q63572} Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, lamellipodium

{ECO:0000250|UniProtKB:Q63572}. Note=Colocalizes with SPRY4 in vesicular spots in the cytoplasm (PubMed:15584898). Localized to F- actin-rich lamellipodia at the cell periphery following fibronectin- mediated cell adhesion of Schwann cells (By similarity)  
{ECO:0000250|UniProtKB:Q63572, ECO:0000269|PubMed:15584898}

**Tissue Location**

Expressed in podocytes and renal tubular cells in the kidney (at protein level).

**TESK1 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**TESK1 Antibody (Center) Blocking peptide - Images**