

TESK1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16795c**Specification**

TESK1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q15569](#)**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:15584898). 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:25849865). 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**TESK1 Antibody (Center) Blocking Peptide - Background**

This gene product is a serine/threonine protein kinase that contains an N-terminal protein kinase domain and a C-terminal proline-rich domain. Its protein kinase domain is most closely related to those of the LIM motif-containing protein kinases (LIMKs). The encoded protein can phosphorylate myelin basic protein and histone in vitro. The testicular germ cell-specific expression and developmental pattern of expression of the mouse gene suggests that this gene plays an important role at and after the meiotic phase of spermatogenesis.

TESK1 Antibody (Center) Blocking Peptide - References

Davila, S., et al. Genes Immun. 11(3):232-238(2010) John, C., et al. Mol. Biol. Cell 19(4):1391-1403(2008) LaLonde, D.P., et al. J. Biol. Chem. 280(22):21680-21688(2005) Leeksa, O.C., et al. Eur. J. Biochem. 269(10):2546-2556(2002) Toshima, J.Y., et al. J. Biol. Chem. 276(46):43471-43481(2001)