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# TESK1 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP16795c**

## Specification

### TESK1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q15569 |
| Other Accession | Q63572, NP_006276.2 |
| Reactivity | **Human** |
| Predicted | **Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **67684** |
| Antigen Region | **187-215** |

### TESK1 Antibody (Center) - Additional Information

**Gene ID** 7016

**Other Names**
Dual specificity testis-specific protein kinase 1, Testicular protein kinase 1, TESK1

**Target/Specificity**
This TESK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 187-215 amino acids from the Central region of human TESK1.

**Dilution**
WB~~1:1000

**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**
TESK1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### TESK1 Antibody (Center) - 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}

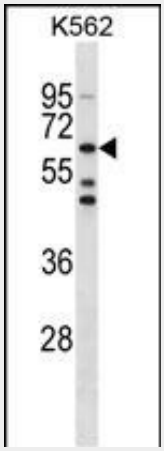
**Tissue Location**
Expressed in podocytes and renal tubular cells in the kidney (at protein level).

## TESK1 Antibody (Center) - Protocols

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

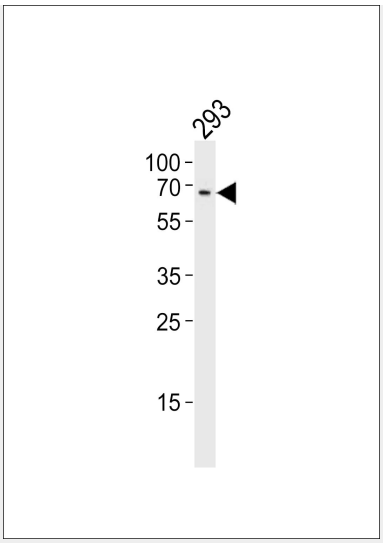
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## TESK1 Antibody (Center) - Images




TESK1 Antibody (Center) (Cat. #AP16795c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the TESK1 antibody detected the TESK1 protein (arrow).

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Western blot analysis of lysate from 293 cell line, using TESK1 Antibody (Center)(Cat. #AP16795c). AP16795c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

**TESK1 Antibody (Center) - 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) - References**

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Leeksma, O.C., et al. Eur. J. Biochem. 269(10):2546-2556(2002)
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