**BACKGROUND**

TESK1 (testis-specific kinase 1) is a 626 amino acid serine/threonine kinase that belongs to the protein kinase superfamily and contains a unique structure composed of a N-terminal protein kinase domain and a C-terminal proline- rich domain. The protein kinase domain of TESK1 is most closely related to those of the LIM motif-containing protein kinases (LIMKs). Functioning as a dual-specificity protein kinase, TESK1 catalyzes the ATP-dependent phosphorylation of exogenous substrates and autophosphorylation on tyrosine and serine/threonine residues, thereby mediating intracellular signal transduction pathways. Predominantly expressed in testicular germ cells, TESK1 may play an important role in spermatogenesis.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TESK1 (human) mapping to 9p13.3; Tesk1 (mouse) mapping to 4 B1.

**SOURCE**

TESK1 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TESK1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82370 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

TESK1 (E-16) is recommended for detection of TESK1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family member TESK2.

Suitable for use as control antibody for TESK1 siRNA (h): sc-76642, TESK1 siRNA (m): sc-76643, TESK1 shRNA Plasmid (h): sc-76642-Sh, TESK1 shRNA Plasmid (m): sc-76643-SH, TESK1 shRNA (h) Lentiviral Particles: sc-76642-V and TESK1 shRNA (m) Lentiviral Particles: sc-76643-V.

Molecular Weight of TESK1: 68 kDa.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.