

# Tektin 1 (E-14): sc-169552

## BACKGROUND

The Tektin proteins comprise a family of insoluble,  $\alpha$ -helical, filament-forming peptides that interact with Tubulins and, via this interaction, form flagellar and ciliary microtubules. Tektin 1, also known as TEKT1, is a 418 amino acid protein that is expressed in testis and contains 4 evolutionary conserved cysteines and one Tektin-specific peptide sequence. Similar to other members of the Tektin family, Tektin 1 functions as a structural component of microtubules, specifically forming polymers in the walls of microtubules and stabilizing overall microtubule structure. Additionally, Tektin 1 may play a role in spermatogenesis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TEKT1 (human) mapping to 17p13.1; Tekt1 (mouse) mapping to 11 B4.

## SOURCE

Tektin 1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Tektin 1 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-169552 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Tektin 1 (E-14) is recommended for detection of Tektin 1 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 other Tektin family members.

Tektin 1 (E-14) is also recommended for detection of Tektin 1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Tektin 1 siRNA (h): sc-94243, Tektin 1 siRNA (m): sc-154181, Tektin 1 shRNA Plasmid (h): sc-94243-SH, Tektin 1 shRNA Plasmid (m): sc-154181-SH, Tektin 1 shRNA (h) Lentiviral Particles: sc-94243-V and Tektin 1 shRNA (m) Lentiviral Particles: sc-154181-V.

Molecular Weight of Tektin 1: 48 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.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.