

Tektin 1 (H-120): sc-135429

BACKGROUND

The tektin proteins comprise a family of insoluble, α -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

- Stephens, R.E. and Lemieux, N.A. 1998. Tektins as structural determinants in basal bodies. *Cell Motil. Cytoskeleton* 40: 379-392.
- Larsson, M., et al. 2000. The spatial and temporal expression of Tekt1, a mouse tektin C homologue, during spermatogenesis suggest that it is involved in the development of the sperm tail basal body and axoneme. *Eur. J. Cell Biol.* 79: 718-725.

CHROMOSOMAL LOCATION

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

SOURCE

Tektin 1 (H-120) is a rabbit polyclonal antibody raised against amino acids 1-120 mapping at the N-terminus of Tektin 1 of human origin.

PRODUCT

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

RESEARCH USE

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

APPLICATIONS

Tektin 1 (H-120) 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), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

Tektin 1 (H-120) is also recommended for detection of Tektin 1 in additional species, including equine, canine, 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.

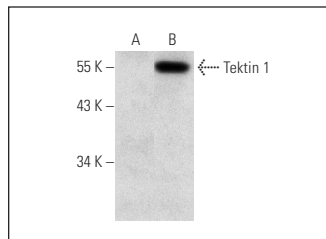
Molecular Weight of Tektin 1: 48 kDa.

Positive Controls: Tektin 1 (h2): 293T Lysate: sc-171982.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Tektin 1 (H-120): sc-135429. Western blot analysis of Tektin 1 expression in non-transfected: sc-117752 (A) and human Tektin 1 transfected: sc-171982 (B) 293T whole cell lysates.

STORAGE

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

PROTOCOLS

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



Try **Tektin 1 (E-5): sc-398507**, our highly recommended monoclonal alternative to Tektin 1 (H-120).