

Tektin 3 (T-12): sc-136917

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 3, is also known as testicular microtubules-related protein or TEKT3, is a 490 amino acid protein and is a member of the Tektin family. Similar to other members of the Tektin family, Tektin 3 functions as a structural component of microtubules, specifically forming polymers in the walls of microtubules and stabilizing overall microtubule structure. Tektin 3 is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TEKT3 (human) mapping to 17p12; Tekt3 (mouse) mapping to 11 B3.

SOURCE

Tektin 3 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Tektin 3 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.

Blocking peptide available for competition studies, sc-136917 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Tektin 3 (T-12) is recommended for detection of Tektin 3 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); non cross-reactive with other Tektin family members.

Suitable for use as control antibody for Tektin 3 siRNA (h): sc-93623, Tektin 3 siRNA (m): sc-154183, Tektin 3 shRNA Plasmid (h): sc-93623-SH, Tektin 3 shRNA Plasmid (m): sc-154183-SH, Tektin 3 shRNA (h) Lentiviral Particles: sc-93623-V and Tektin 3 shRNA (m) Lentiviral Particles: sc-154183-V.

Molecular Weight of Tektin 3: 57 kDa.

Positive Controls: mouse brain extract: sc-2253 or mouse testis extract: sc-2405.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

PROTOCOLS

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