

Tctex1L (E-15): sc-162310

BACKGROUND

Dyneins are multisubunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. Cytoplasmic or axonemal Dynein heavy, intermediate, light and light-intermediate chains are all components of minus end-directed motors; the complex transports cellular cargos towards the central region of the cell. Axonemal dynein motors contain one to three non-identical heavy chains and cause a sliding of microtubules in the axonemes of cilia and flagella in a mechanism necessary for cilia to beat and propel the cell. Tctex1L (t-complex-associated-testis-expressed 1-like), also known as RP3, TCTE1L or DYNLT3, is a 116 amino acid nuclear and cytoplasmic protein belonging to the dynein light chain Tctex-type family. Considered a transcriptional modulator, Tctex1L binds specifically to BUB3, a spindle checkpoint protein, suggesting a role in transport of checkpoint proteins from the kinetochore to the spindle pole. Tctex1L may also be important for chromosome congression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DYNLT3 (human) mapping to Xp11.4; Dynlt3 (mouse) mapping to X A1.1.

SOURCE

Tctex1L (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Tctex1L of human origin.

STORAGE

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

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-162310 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Tctex1L (E-15) is recommended for detection of Tctex1L of human origin and Dynlt3 of mouse origin of mouse 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 Tctex1.

Suitable for use as control antibody for Tctex1L siRNA (h): sc-90988, Dynlt3 siRNA (m): sc-143209, Tctex1L shRNA Plasmid (h): sc-90988-SH, Dynlt3 shRNA Plasmid (m): sc-143209-SH, Tctex1L shRNA (h) Lentiviral Particles: sc-90988-V and Dynlt3 shRNA (m) Lentiviral Particles: sc-143209-V.

Molecular Weight of Tctex1L: 13 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.