SANTA CRUZ BIOTECHNOLOGY, INC.

DNALI1 (P-24): sc-133519

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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; complexes that transport cellular cargo toward 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. DNALI1 (dynein, axonemal, light intermediate chain 1), also known as P28, is a 258 amino acid protein involved in flagellar motility. A member of the inner dynein arm light chain family, DNALI1 is widely expressed with highest expression found in testis, and is considered a potential candidate for immotile cilia syndrome (ICS).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNALI1 (human) mapping to 1p34.3; Dnali1 (mouse) mapping to 4 D2.2.

RESEARCH USE

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

SOURCE

DNALI1 (P-24) is an affinity purified rabbit polyclonal antibody raised against synthetic DNALI1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

DNALI1 (P-24) is recommended for detection of DNALI1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DNALI1 siRNA (h): sc-88537, DNALI1 siRNA (m): sc-143116, DNALI1 shRNA Plasmid (h): sc-88537-SH, DNALI1 shRNA Plasmid (m): sc-143116-SH, DNALI1 shRNA (h) Lentiviral Particles: sc-88537-V and DNALI1 shRNA (m) Lentiviral Particles: sc-143116-V.

Molecular Weight (predicted) of DNALI1: 30 kDa.

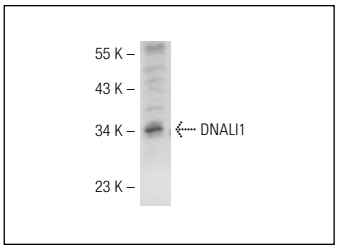
Molecular Weight (observed) of DNALI1: 32 kDa.

Positive Controls: Mouse testis extract: sc-2405.

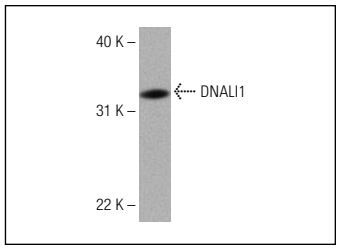
RECOMMENDED SECONDARY REAGENTS

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).

DATA



DNALI1 (P-24): sc-133519. Western blot analysis of DNALI1 expression in 293T whole cell lysate.



DNALI1 (P-24): sc-133519. Western blot analysis of DNALI1 expression in 721 B whole cell lysate.

STORAGE

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