

DNALI1 (E-14): sc-160294

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; Dnal1 (mouse) mapping to 4 D2.2.

SOURCE

DNALI1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DNALI1 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-160294 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DNALI1 (E-14) 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 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).

DNALI1 (E-14) is also recommended for detection of DNALI1 in additional species, including porcine.

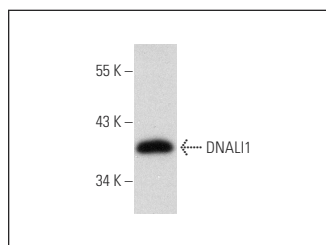
Suitable for use as control antibody for DNALI1 siRNA (h): sc-88537, DNALI1 siRNA (m): sc-143116, DNALI1 shRNA Plasmid (h): sc-88537-SH, DNALI1 shRNA Plasmid (m): sc-143116-SH, DNALI1 shRNA (h) Lentiviral Particles: sc-88537-V and DNALI1 shRNA (m) Lentiviral Particles: sc-143116-V.

Molecular Weight (predicted) of DNALI1: 30 kDa.

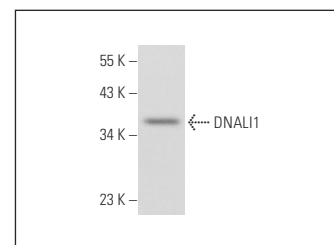
Molecular Weight (observed) of DNALI1: 32 kDa.

Positive Controls: mouse testis extract: sc-2405, IMR-32 cell lysate: sc-2409 or Hs 181 Tes whole cell lysate: sc-364779.

DATA



DNALI1 (E-14): sc-160294. Western blot analysis of DNALI1 expression in Hs 181 Tes whole cell lysate.



DNALI1 (E-14): sc-160294. Western blot analysis of DNALI1 expression in IMR-32 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.

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.

MONOS
Satisfaction
Guaranteed

Try **DNALI1 (G-12): sc-514831** or **DNALI1 (A-9): sc-514832**, our highly recommended monoclonal alternatives to DNALI1 (E-14).