DYNC2LI1 (H-300): sc-135136



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 Dynein is an approximately twelve subunit complex of two heavy chains, two intermediate chains to anchor Dynein to its cargo, four smaller intermediate chains and several light chains. Cytoplasmic Dynein performs functions necessary for cell survival such as organelle transport and centrosome assembly. DYNC2LI1 (dynein, cytoplasmic 2, light intermediate chain 1), also known as LIC3, D2LIC or CGI-60, is a 351 amino acid cytoplasmic protein belonging to the dynein light intermediate chain family. DYNC2LI1 may function as a motor for intraflagellar retrograde transport and in cilia biogenesis. The cytoplasmic dynein complex 2 may be composed of a DYNC2H1 homodimer and a number of DYNC2LI1 light intermediate chains. DYNC2LI1 exists as five alternatively spliced isoforms.

REFERENCES

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- Malikov, V., et al. 2004. Cytoplasmic dynein nucleates microtubules to organize them into radial arrays in vivo. Mol. Biol. Cell 15: 2742-2749.
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CHROMOSOMAL LOCATION

Genetic locus: DYNC2Ll1 (human) mapping to 2p21; Dync2li1 (mouse) mapping to 17 E4.

SOURCE

DYNC2LI1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of DYNC2LI1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

DYNC2LI1 (H-300) is recommended for detection of DYNC2LI1 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).

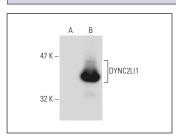
DYNC2LI1 (H-300) is also recommended for detection of DYNC2LI1 in additional species, including equine, canine, bovine and porcine.

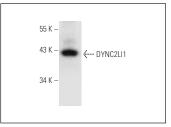
Suitable for use as control antibody for DYNC2LI1 siRNA (h): sc-94258, DYNC2LI1 siRNA (m): sc-143207, DYNC2LI1 shRNA Plasmid (h): sc-94258-SH, DYNC2LI1 shRNA Plasmid (m): sc-143207-SH, DYNC2LI1 shRNA (h) Lentiviral Particles: sc-94258-V and DYNC2LI1 shRNA (m) Lentiviral Particles: sc-143207-V.

Molecular Weight of DYNC2LI1: 40 kDa.

Positive Controls: DYNC2LI1 (m): 293T Lysate: sc-119873 or BC_3H1 cell lysate: sc-2299.

DATA





DYNC2LI1 (H-300): sc-135136. Western blot analysis of DYNC2LI1 expression in non-transfected: sc-117752 (A) and mouse DYNC2LI1 transfected: sc-119873 (B) 293T whole cell Ivsates.

DYNC2LI1 (H-300): sc-135136. Western blot analysis of DYNC2LI1 expression in BC $_3$ H1 whole cell lysate.

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.



Try **DYNC2LI1 (E-5):** sc-376645 or **DYNC2LI1 (H-4):** sc-376644, our highly recommended monoclonal alternatives to DYNC2LI1 (H-300).

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