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DYNC2L1 (m): 293T Lysate: sc-119873

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 12 subunit complex of 2 heavy chains, 2 intermediate chains to anchor Dynein to its cargo, 4 smaller intermediate chains and several light chains. Cytoplasmic Dynein performs functions necessary for cell survival such as organelle transport and centrosome assembly. DYNC2L1 (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. DYNC2L1 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 DYNC2L1 light intermediate chains. DYNC2L1 exists as five alternatively spliced isoforms.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Dync2li1 (mouse) mapping to 17 E4.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PRODUCT

DYNC2L1 (m): 293T Lysate represents a lysate of mouse DYNC2L1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

DYNC2L1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive DYNC2L1 antibodies. Recommended use: 10-20 µl per lane.

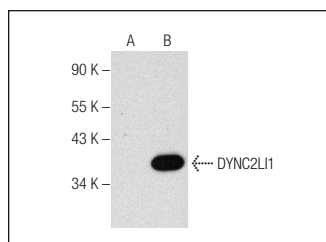
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DYNC2L1 (E-5): sc-376645 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse DYNC2L1 expression in DYNC2L1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



DYNC2L1 (E-5): sc-376645. Western blot analysis of DYNC2L1 expression in non-transfected: sc-117752 (A) and mouse DYNC2L1 transfected: sc-119873 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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