



LSm11 (E-16): sc-104973

BACKGROUND

Sm and Sm-like (LSm) proteins form donut-shaped, ubiquitously expressed heptameric complexes that are involved in various steps of RNA metabolism, including RNA-protein interactions and structural changes that are required during ribosomal subunit assembly. LSm11 is a 360 amino acid protein that localizes to the nucleus and belongs to the LSm subfamily of snRNP Sm proteins. Containing an N-terminal domain that is necessary for pre-mRNA cleavage, LSm11 functions to bind specifically to U7 snRNA and is thought to play a role in cell cycle regulation and cell growth. The gene encoding LSm11 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LSM11 (human) mapping to 5q33.3; Lsm11 (mouse) mapping to 11 B1.1.

STORAGE

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

SOURCE

LSm11 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LSm11 of human origin.

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-104973 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LSm11 (E-16) is recommended for detection of LSm11 of mouse, rat 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 other LSm family members.

Suitable for use as control antibody for LSm11 siRNA (h): sc-91593, LSm11 siRNA (m): sc-149131, LSm11 shRNA Plasmid (h): sc-91593-SH, LSm11 shRNA Plasmid (m): sc-149131-SH, LSm11 shRNA (h) Lentiviral Particles: sc-91593-V and LSm11 shRNA (m) Lentiviral Particles: sc-149131-V.

Molecular Weight of LSm11: 50 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.