LSm5 (V-20): sc-74959



The Power to Question

BACKGROUND

Sm and Sm-like (LSm) proteins form donut-shaped heptameric complexes that are involved in various steps of RNA metabolism. LSm proteins facilitate RNA protein interactions and structural changes that are required during ribosomal subunit assembly. LSm proteins contain a Sm sequence motif which has two regions separated by a linker of variable length that forms a loop. LSm5, also known as YER146W, is a 91 amino acid protein belonging to the snRNP Sm family. Localized to the nucleus, LSm5 has been found to play a role in the formation and function of the U6 snRNP. Specifically, LSm5 binds to the 3' end of U6 snRNA and facilitates U4/U6 duplex formation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LSM5 (human) mapping to 7p14.3; Lsm5 (mouse) mapping to 6 B3.

SOURCE

LSm5 (V-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LSm5 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.

Blocking peptide available for competition studies, sc-74959 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-74959 X, 200 $\mu q/0.1$ ml.

APPLICATIONS

LSm5 (V-20) is recommended for detection of LSm5 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).

LSm5 (V-20) is also recommended for detection of LSm5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LSm5 siRNA (h): sc-75709, LSm5 siRNA (m): sc-75710, LSm5 shRNA Plasmid (h): sc-75709-SH, LSm5 shRNA Plasmid (m): sc-75710-SH, LSm5 shRNA (h) Lentiviral Particles: sc-75709-V and LSm5 shRNA (m) Lentiviral Particles: sc-75710-V.

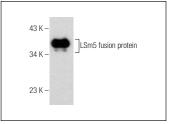
LSm5 (V-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of LSm5: 10 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat lgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat lgG-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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat lgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat lgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



LSm5 (V-20): sc-74959. Western blot analysis of human recombinant LSm5 fusion protein.

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.