SRp55 (N-15): sc-34196



The Power to Question

BACKGROUND

Pre-mRNA splicing is a critical step in the post-transcriptional regulation of gene expression. Several protein complexes are involved in proper mRNA splicing and transport. Serine/arginine-rich (SR) proteins SRp55, SRp30c and HtrA2 β 1 regulate exon 2 and 10 splicing. The first two inhibit both exons and SRp55 also plays a role in exon inclusion after the removal of intronic splicing silencer sequences. SRp55 plays a major role in maintaining normal FGFR1 α -exon inclusion.

REFERENCES

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- 3. Lemaire, R., et al. 1999. SF2 and SRp55 regulation of CD45 exon 4 skipping during T cell activation. Eur. J. Immunol. 29: 823-837.
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- 5. Tran, Q., et al. 2003. Human transformer 2β and SRp55 interact with a calcitonin-specific splice enhancer. Biochim. Biophys. Acta 1625: 141-152.
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CHROMOSOMAL LOCATION

Genetic locus: SRSF6 (human) mapping to 20q13.11, SRSF4 (human) mapping to 1p35.3; Srsf4 (mouse) mapping to 4 D2.3, Srsf6 (mouse) mapping to 2 H2.

SOURCE

SRp55 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within RNA binding domain 1 at the N-terminus of SRp55 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-34196 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

PROTOCOLS

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

APPLICATIONS

SRp55 (N-15) is recommended for detection of SRp55 and SRp75 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SRp55 (N-15) is also recommended for detection of SRp55 and SRp75 in additional species, including bovine, porcine and avian.

Molecular Weight of unphosphorylated SRp55: 40 kDa.

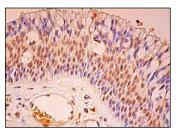
Molecular Weight of phosphorylated SRp55: 55 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, K-562 nuclear extract: sc-2130 or HeLa nuclear extract: sc-2120.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



SRp55 (N-15): sc-34196. Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing nuclear staining of respiratory

RESEARCH USE

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



Try **SR (1H4):** sc-13509 or **SRp55 (C-6):** sc-515111, our highly recommended monoclonal aternatives to SRp55 (N-15). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **SR (1H4):** sc-13509.