SANTA CRUZ BIOTECHNOLOGY, INC.

SRPK2 (H-81): sc-292573

SANTA CRUZ BIOTECHNOLOGY
The Power to Question

BACKGROUND

Arginine/serine-rich (RS) domain-containing proteins and their phosphorylation by specific protein kinases constitute control circuits to regulate both constitutive and alternative pre-mRNA splicing and coordinate splicing with transcription in cells. Two SR protein-specific kinases (SRPK, also designated SFRSK), SRPK1 and SRPK2, are highly specific for the phosphorylation of these RS proteins, thereby contributing to splicing regulation. SRPK1 plays a role in the condensation of sperm chromatin. SRPK2 has a stringent preference for SR dipeptides and contains a proline-rich sequence at its amino terminus. SRPK1 is expressed as two alternatively spliced isoforms, one of which is localized specifically to testis and the other of which shares a similar localization pattern to SRPK2 and is present in brain, heart, liver and lung.

REFERENCES

1. Wang, H.Y., et al. 1998. SRPK2: a differentially expressed SR protein-specific kinase involved in mediating the interaction and localization of pre-mRNA splicing factors in mammalian cells. J. Cell Biol. 140: 737-750.
2. Kuroyanagi, N., et al. 1998. Novel SR-protein-specific kinase, SRPK2, disassembles nuclear speckles. Biochem. Biophys. Res. Commun. 242: 357-364.

CHROMOSOMAL LOCATION

Genetic locus: SRPK2 (human) mapping to 7q22.3; Srpk2 (mouse) mapping to 5 A3.

SOURCE

SRPK2 (H-81) is a rabbit polyclonal antibody raised against amino acids 372-452 mapping within an internal region of SRPK2 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.

APPLICATIONS

SRPK2 (H-81) is recommended for detection of SRPK2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

SRPK2 (H-81) is also recommended for detection of SRPK2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SRPK2 siRNA (h): sc-39237, SRPK2 siRNA (m): sc-39238, SRPK2 shRNA Plasmid (h): sc-39237-SH, SRPK2 shRNA Plasmid (m): sc-39238-SH, SRPK2 shRNA (h) Lentiviral Particles: sc-39237-V and SRPK2 shRNA (m) Lentiviral Particles: sc-39238-V.

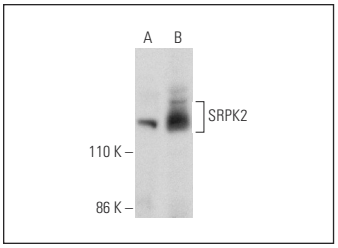
Molecular Weight of SRPK2: 120 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, MOLT-4 cell lysate: sc-2233 or mouse brain extract: sc-2253.

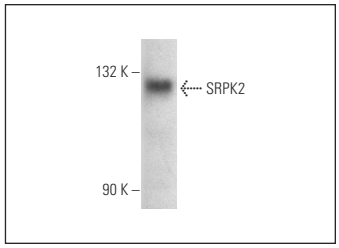
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SRPK2 (H-81): sc-292573. Western blot analysis of SRPK2 expression in mouse brain tissue extract (**A**) and MOLT-4 whole cell lysate (**B**).



SRPK2 (H-81): sc-292573. Western blot analysis of SRPK2 expression in MDCK whole cell lysate.

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.

PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **SRPK2 (H-5): sc-390534** or **SRPK2 (A-5): sc-390930**, our highly recommended monoclonal alternatives to SRPK2 (H-81).