

# SRPK1 (P-17): sc-11305

## 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. Both SRPK1 and SRPK2 are highly expressed in testes. SRPK1 is found exclusively in pancreas and SRPK2 is found exclusively in brain 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 LOCATIONS

Genetic locus: SRPK1 (human) mapping to 6p21.31; *Srp1k* (mouse) mapping to 17 A3.3.

## SOURCE

SRPK1 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SRPK1 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-11305 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SRPK1 (P-17) is recommended for detection of SRPK1 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).

SRPK1 (P-17) is also recommended for detection of SRPK1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SRPK1 siRNA (h): sc-39235, SRPK1 siRNA (m): sc-39236, SRPK1 shRNA Plasmid (h): sc-39235-SH, SRPK1 shRNA Plasmid (m): sc-39236-SH, SRPK1 shRNA (h) Lentiviral Particles: sc-39235-V and SRPK1 shRNA (m) Lentiviral Particles: sc-39236-V.

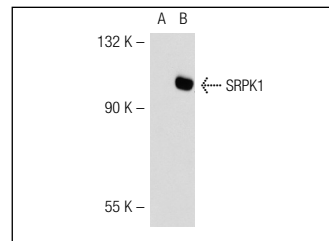
Molecular Weight of SRPK1: 106 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285, mouse testis extract: sc-2405 or SRPK1 (m): 293T Lysate: sc-123782.

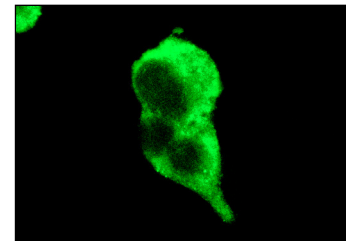
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



SRPK1 (P-17): sc-11305. Western blot analysis of SRPK1 expression in non-transfected: sc-117752 (A) and mouse SRPK1 transfected: sc-123782 (B) 293T whole cell lysates.



SRPK1 (P-17): sc-11305. Immunofluorescence staining of methanol-fixed MIA PaCa-2 cells showing cytoplasmic localization.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **SRPK (D-7): sc-398432** or **SRPK1 (EE-13): sc-100443**, our highly recommended monoclonal alternatives to SRPK1 (P-17).