# SFRS2IP (S-15): sc-162179



The Power to Question

# **BACKGROUND**

Pre-mRNA splicing enhancer elements are short RNA sequences capable of activating weak splice sites in nearby introns that are required for accurate splice site recognition and the control of alternative splicing. Splicing enhancer elements contain specific binding sites for serine/arginine (SR)-rich splicing factors, which include SC35, 9G8, SRp20 and SF2/ASF. The family of SR factors all contain one or more RNA recognition motifs (RRM) and an SR-rich domain. The SR factor family is not only essential for constitutive splicing, but also regulate splicing in a concentration-dependent manner by influencing the selection of alternative splice sites. SFRS2IP (splicing factor, arginine/serine-rich 2, interacting protein), also known as CASP11, SIP1, renal carcinoma antigen NY-REN-40 or SRRP129 (splicing regulatory protein 129), is a 1,463 amino acid nuclear protein that participates in pre-mRNA alternative splicing via regulation of spliceosome assembly. Widely expressed, SFRS2IP contains one RING-type zinc finger and interacts with SC35, U1 SnRNP 70 and U2AF65.

# **REFERENCES**

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- Tanner, S., et al. 1997. A novel SR-related protein specifically interacts with the carboxy-terminal domain (CTD) of RNA polymerase II through a conserved interaction domain. Biol. Chem. 378: 565-571.
- Zhang, W.J. and Wu, J.Y. 1998. Sip1, a novel RS domain-containing protein essential for pre-mRNA splicing. Mol. Cell. Biol. 18: 676-684.
- van de Craen, M., et al. 1999. Identification of caspases that cleave presenilin-1 and presenilin-2. Five presenilin-1 (PS1) mutations do not alter the sensitivity of PS1 to caspases. FEBS Lett. 445: 149-154.
- 5. Online Mendelian Inheritance in Man, OMIM™. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 603668. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 6. Delunardo, F., et al. 2006. Identification and characterization of the carboxy-terminal region of Sip-1, a novel autoantigen in Behçet's disease. Arthritis Res. Ther. 8: R71.

# CHROMOSOMAL LOCATION

Genetic locus: SCAF11 (human) mapping to 12q12; Scaf11 (mouse) mapping to 15 F1.

# **SOURCE**

SFRS2IP (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SFRS2IP of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162179 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

SFRS2IP (S-15) is recommended for detection of SFRS2IP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

SFRS2IP (S-15) is also recommended for detection of SFRS2IP in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for SFRS2IP siRNA (h): sc-96111, SFRS2IP siRNA (m): sc-153406, SFRS2IP shRNA Plasmid (h): sc-96111-SH, SFRS2IP shRNA Plasmid (m): sc-153406-SH, SFRS2IP shRNA (h) Lentiviral Particles: sc-96111-V and SFRS2IP shRNA (m) Lentiviral Particles: sc-153406-V.

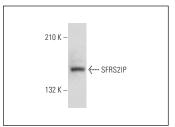
Molecular Weight of SFRS2IP: 165 kDa.

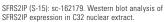
Positive Controls: SFRS2IP (h): 293T Lysate: sc-129757 or C32 nuclear extract: sc-2136.

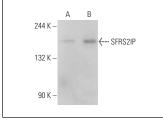
#### **RECOMMENDED SECONDARY REAGENTS**

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







SFRS2IP (S-15): sc-162179. Western blot analysis of SFRS2IP expression in non-transfected: sc-117752 (A) and human SFRS2IP transfected: sc-129757 (B) 293T whole cell lysates.

# **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