# SSRP1 (m): 293T Lysate: sc-127593



The Power to Question

## **BACKGROUND**

Expression of protein-coding genes requires the association of specific transcription factors, RNA polymerase and various accessory factors. These accessory factors are distinguished as either histone acetyltransferases or ATP-dependent chromatin-remodeling enzymes, which include FACT (for facilitates chromatin transcription), and they facilitate transcription initiation on DNA packaged into chromatin. FACT is a chromatin-specific elongation factor required for transcription of chromatin templates, and it specifically interacts with nucleosomes and histone H2A/H2B dimers, to promote nucleosome disassembly upon transcription. FACT represents a complex between SPT16, a homologue of the Saccharomyces cerevisiae Spt16/Cdc68 protein, and the high-mobility group (HMG)-1-like protein structure-specific recognition protein-1 (SSRP-1). Similar to other (HMG) domain containing proteins, which are characterized by their ability to bend target DNAs, SSRP1 and the murine ortholog T160, physically interact with serum response factors (SRF) and function as a positive co-regulatory proteins involved in modulating SRFdependent gene expression.

# **REFERENCES**

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- 5. Dyer, M.A., et al. 1998. The HMG domain protein SSRP1/PREIIBF is involved in activation of the human embryonic-like globin gene. Mol. Cell. Biol. 18: 2617-2628.
- LeRoy, G., et al. 1998. Requirement of RSF and FACT for transcription of chromatin templates in vitro. Science 282: 1900-1904.
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# **CHROMOSOMAL LOCATION**

Genetic locus: Ssrp1 (mouse) mapping to 2 D.

#### **PRODUCT**

SSRP1 (m): 293T Lysate represents a lysate of mouse SSRP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

# **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

SSRP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SSRP1 antibodies. Recommended use: 10-20 µl per lane.

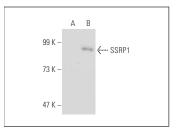
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SSRP1 (D-7): sc-74536 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SSRP1 expression in SSRP1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### DATA



SSRP1 (D-7): sc-74536. Western blot analysis of SSRP1 expression in non-transfected: sc-117752 (A) and mouse SSRP1 transfected: sc-127593 (B) 293T whole cell Ivsates.

## **RESEARCH USE**

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

#### **PROTOCOLS**

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

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