

SRA (FL-220): sc-32913

BACKGROUND

Steroid receptor RNA activator (SRA) selectively mediates transactivation of steroid hormone receptors. Specifically, SRA exists as both an RNA transcript that forms a complex with steroid receptor coactivator-1 and as a stably expressed protein. There are six RNA motifs in SRA that are important for coactivation. SRA is ubiquitously expressed in normal tissues with higher levels of expression in liver and skeletal muscle. SRA is expressed at a low level in brain. SRA is expressed at higher levels in breast tumor than in normal tissue. Overexpression of SRA stimulates ER α transcriptional activity. In cells transfected with antisense oligodeoxynucleotides to SRA, ER α expression is reduced in a dose-dependent fashion. SMRT/HDAC1 associated repressor protein (SHARP) binds to SRA and inhibits SRA-potentiated steroid receptor transcription.

REFERENCES

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5. Lanz, R.B., Razani, B., Goldberg, A.D. and O'Malley, B.W. 2002. Distinct RNA motifs are important for coactivation of steroid hormone receptors by steroid receptor RNA activator (SRA). *Proc. Natl. Acad. Sci. USA* 99: 16081-16086.

CHROMOSOMAL LOCATION

Genetic locus: SRA1 (human) mapping to 5q31.3; Sra1 (mouse) mapping to 18 B2.

SOURCE

SRA (FL-220) is a rabbit polyclonal antibody raised against amino acids 1-220 representing full length SRA of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4 $^{\circ}$ C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

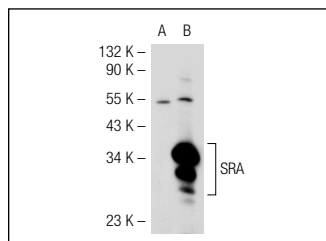
SRA (FL-220) is recommended for detection of SRA of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SRA siRNA (h): sc-38461, SRA siRNA (m): sc-38462, SRA shRNA Plasmid (h): sc-38461-SH, SRA shRNA Plasmid (m): sc-38462-SH, SRA shRNA (h) Lentiviral Particles: sc-38461-V and SRA shRNA (m) Lentiviral Particles: sc-38462-V.

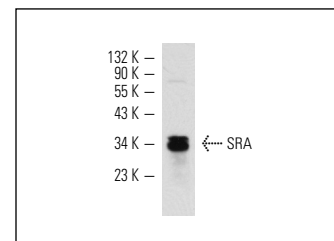
Molecular Weight of SRA: 35 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, SRA (m2): 293T Lysate: sc-123773 or rat skeletal muscle extract: sc-364810.

DATA



SRA (FL-220): sc-32913. Western blot analysis of SRA expression in non-transfected: sc-117752 (A) and mouse SRA transfected: sc-123773 (B) 293T whole cell lysates.



SRA (FL-220): sc-32913. Western blot analysis of SRA expression in NIH/3T3 whole cell lysate.

SELECT PRODUCT CITATIONS

1. Zhou, X., He, W., Huang, Z., Gotto, A.M., Jr, Hajjar, D.P. and Han, J. 2008. Genetic deletion of low density lipoprotein receptor impairs sterol-induced mouse macrophage ABCA1 expression. A new SREBP1-dependent mechanism. *J. Biol. Chem.* 283: 2129-2138.

RESEARCH USE

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

PROTOCOLS

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MONOS
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Try **SRA (E-5): sc-393240** or **SRA (D-8): sc-271948**, our highly recommended monoclonal alternatives to SRA (FL-220).