

# 60 kDa Ro/SSA (AA-3): sc-100844

## BACKGROUND

Ro autoantigens are of clinical significance because antibodies directed against them are found in most patients with primary Sjogren syndrome, subacute cutaneous lupus erythematosus (SLE), neonatal lupus erythematosus, ANA-negative lupus erythematosus and systemic lupus erythematosus-like disease secondary to homozygous C2 or C4 complement deficiency. Ro/SSA is a ribonucleoprotein that binds to autoantibodies in 35 to 50% of patients with SLE and in up to 97% of patients with Sjogren syndrome. The Ro/SSA particle consists of a single immunoreactive protein noncovalently bound with one of four small RNA molecules. Most anti-Ro/SSA-positive sera have antibodies not only against the immunoreactive protein, but also against an Ro/SSA protein. La/SSB is an autoimmune RNA-binding protein that plays a role in the transcription of RNA polymerase III was originally defined by its reactivity with autoantibodies from patients with Sjogren syndrome and SLE.

## REFERENCES

1. Chambers, J.C., et al. 1988. Genomic structure and amino acid sequence domains of the human La autoantigen. *J. Biol. Chem.* 263: 18043-18051.
2. Itoh, K., et al. 1991. Protein heterogeneity in the human Ro/SSA ribonucleoproteins. The 52- and 60 kDa Ro/SSA autoantigens are encoded by separate genes. *J. Clin. Invest.* 87: 177-186.

## CHROMOSOMAL LOCATION

Genetic locus: TROVE2 (human) mapping to 1q31.2; Trove2 (mouse) mapping to 1 F.

## SOURCE

60 kDa Ro/SSA (AA-3) is a mouse monoclonal antibody raised against recombinant 60 kDa Ro/SSA of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

60 kDa Ro/SSA (AA-3) is recommended for detection of 60 kDa Ro/SSA 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).

Suitable for use as control antibody for 60 kDa Ro/SSA siRNA (h): sc-40918, 60 kDa Ro/SSA siRNA (m): sc-40919, 60 kDa Ro/SSA shRNA Plasmid (h): sc-40918-SH, 60 kDa Ro/SSA shRNA Plasmid (m): sc-40919-SH, 60 kDa Ro/SSA shRNA (h) Lentiviral Particles: sc-40918-V and 60 kDa Ro/SSA shRNA (m) Lentiviral Particles: sc-40919-V.

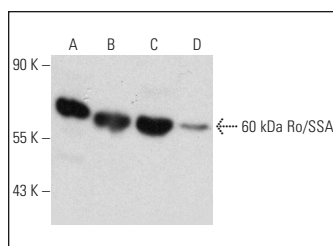
Molecular Weight of 60 kDa Ro/SSA: 60 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or A549 cell lysate: sc-2413.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



60 kDa Ro/SSA (AA-3): sc-100844. Western blot analysis of 60 kDa Ro/SSA expression in HeLa (A), A549 (B), Jurkat (C) and NIH/3T3 (D) whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Ramírez-Sandoval, R., et al. 2015. An animal model using metallic ions to produce autoimmune nephritis. *J. Immunol. Res.* 2015: 269610.
2. Hizir, Z., et al. 2017. RNY (YRNA)-derived small RNAs regulate cell death and inflammation in monocytes/macrophages. *Cell Death Dis.* 8: e2530.
3. Pollak, A.J., et al. 2020. Gapmer antisense oligonucleotides targeting 5S ribosomal RNA can reduce mature 5S ribosomal RNA by two mechanisms. *Nucleic Acid Ther.* E-published.

## 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) for detailed protocols and support products.