

# 52 kDa Ro/SSA (H-140): sc-20960

## 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 antibodies detect not only the main protein, but also a smaller Ro/SSA protein. The genes which encode the smaller and larger proteins map to human chromosomes 11p15.4 and 1q31, respectively. 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.

## CHROMOSOMAL LOCATION

Genetic locus: TRIM21 (human) mapping to 11p15.4.

## SOURCE

52 kDa Ro/SSA (H-140) is a rabbit polyclonal antibody raised against amino acids 141-280 of 52 kDa Ro/SSA 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

52 kDa Ro/SSA (H-140) is recommended for detection of 52 kDa Ro/SSA of 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), immunohistochemistry (including paraffin-embedded sections) (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 52 kDa Ro/SSA siRNA (h): sc-40917, 52 kDa Ro/SSA shRNA Plasmid (h): sc-40917-SH and 52 kDa Ro/SSA shRNA (h) Lentiviral Particles: sc-40917-V.

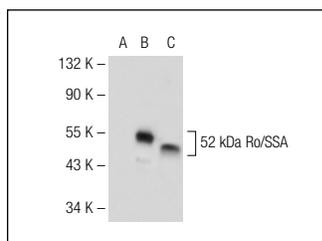
Molecular Weight of 52 kDa Ro/SSA: 52 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, HT-1080 whole cell lysate: sc-364183 or 52 kDa Ro/SSA (h): 293T Lysate: sc-158201.

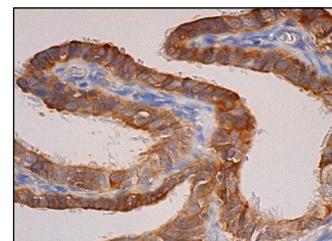
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



52 kDa Ro/SSA (H-140): sc-20960. Western blot analysis of 52 kDa Ro/SSA expression in non-transfected 293T: sc-117752 (A), human 52 kDa Ro/SSA transfected 293T: sc-158201 (B) and HT-1080 (C) whole cell lysates.



52 kDa Ro/SSA (H-140): sc-20960. Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing cytoplasmic staining of glandular cells.

## SELECT PRODUCT CITATIONS

- Kijanka, G., et al. 2009. Rapid characterization of binding specificity and cross-reactivity of antibodies using recombinant human protein arrays. *J. Immunol. Methods* 340: 132-137.
- Burbelo, P.D., et al. 2009. Sensitive and robust luminescent profiling of anti-La and other autoantibodies in Sjogren's syndrome. *Autoimmunity* 42: 515-524.
- Al-Majdoub, M., et al. 2013. Mass spectrometric and peptide chip characterization of an assembled epitope: analysis of a polyclonal antibody model serum directed against the Sjogren/systemic lupus erythematosus autoantigen TRIM21. *J. Mass Spectrom.* 48: 651-659.

## RESEARCH USE

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



Try **52 kDa Ro/SSA (D-12): sc-25351** or **52 kDa Ro/SSA (E-11): sc-48430**, our highly recommended monoclonal alternatives to 52 kDa Ro/SSA (H-140). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **52 kDa Ro/SSA (D-12): sc-25351**.