

52 kDa Ro/SSA (h): 293 Lysate: sc-111343

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.

REFERENCES

- Chambers, J.C., et al. 1988. Genomic structure and amino acid sequence domains of the human La autoantigen. *J. Biol. Chem.* 263: 18043-18051.
- 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.
- Frank, M.B., et al. 1993. The mapping of the human 52 kDa Ro/SSA autoantigen gene to human chromosome 11, and its polymorphisms. *Am. J. Hum. Genet.* 52: 183-191.
- Chan, E.K., et al. 1994. Human 60 kDa Ro/SSA ribonucleoprotein autoantigen gene (SSA2) localized to 1q31 by fluorescence *in situ* hybridization. *Genomics* 23: 298-300.
- LocusLink Report (LocusID: 600063). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

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

PRODUCT

52 kDa Ro/SSA (h): 293 Lysate represents a lysate of human 52 kDa Ro/SSA transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

52 kDa Ro/SSA (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive 52 kDa Ro/SSA antibodies. Recommended use: 10-20 µl per lane.

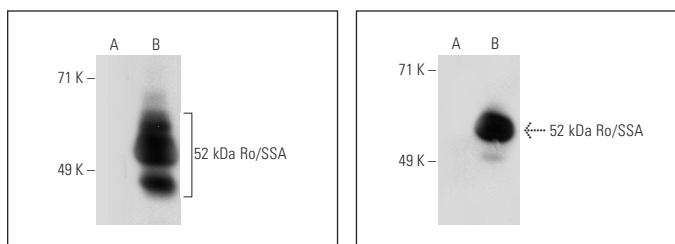
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

52 kDa Ro/SSA (D-12): sc-25351 is recommended as a positive control antibody for Western Blot analysis of enhanced human 52 kDa Ro/SSA expression in 52 kDa Ro/SSA transfected 293 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-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.

DATA



52 kDa Ro/SSA (D-12): sc-25351. Western blot analysis of 52 kDa Ro/SSA expression in non-transfected: sc-110760 (A) and human 52 kDa Ro/SSA transfected: sc-111343 (B) 293 whole cell lysates.

52 kDa Ro/SSA (E-11): sc-48430. Western blot analysis of 52 kDa Ro/SSA expression in non-transfected: sc-110760 (A) and human 52 kDa Ro/SSA transfected: sc-111343 (B) 293 whole cell lysates.

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.

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.