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**Product Name: KD-Validated SSB Mouse Monoclonal Antibody****Catalog #: KVA00526**

For research use only.

**Summary**

<b>Description</b>	KO&KD-Validated antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,FCM,ICC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG2a
<b>Clonality</b>	Mouse mAb
<b>Form</b>	Liquid
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
<b>Molecular Weight</b>	Calculated MW: 46.8kDa

**Antigen Information**

<b>Gene Name</b>	SSB
<b>Alternative Names</b>	SSB; Small RNA Binding Exonuclease Protection Factor La; Lupus La Protein; La Autoantigen; La/SSB; LARP3; La; La Ribonucleoprotein Domain Family, Member 3; Sjogren Syndrome Type B Antigen; Sjogren Syndrome Antigen B; SS-B; Sjogren Syndrome Antigen B (Autoantigen La); La Ribonucleoprotein; Lupus La Antigen; SS-B/La Protein; Autoantigen La
<b>Gene ID</b>	6741.0
<b>SwissProt ID</b>	P05455
<b>Immunogen</b>	Recombinant protein of human SSB

**Background**

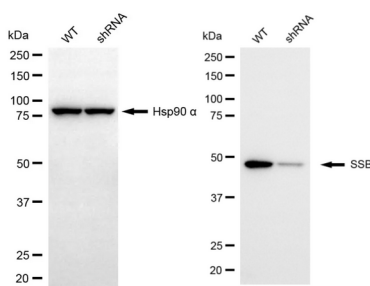
The protein encoded by this gene is involved in diverse aspects of RNA metabolism, including binding and protecting poly(U)

termini of nascent RNA polymerase III transcripts from exonuclease digestion, processing 5' and 3' ends of pre-tRNA precursors, acting as an RNA chaperone, and binding viral RNAs associated with hepatitis C virus. Autoantibodies reacting with this protein are found in the sera of patients with Sjogren syndrome and systemic lupus erythematosus. Alternative promoter usage results in two different transcript variants which encode the same protein. [provided by RefSeq, Jun 2014]

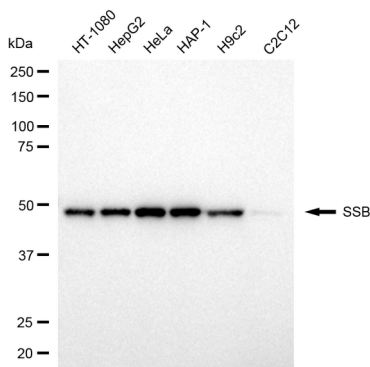
## Research Area

Epigenetics and Nuclear Signaling, Immunology

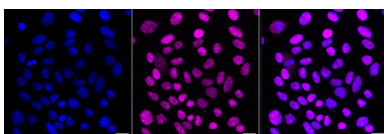
## Image Data



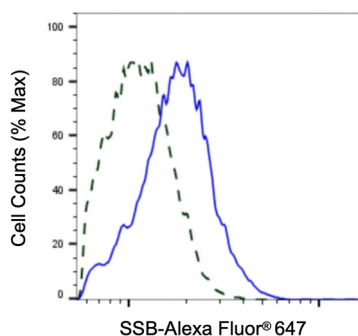
Western blotting analysis using SSB antibody (KVA00526). SSB expression in wild-type (WT) and SSB shRNA knockdown (KD) HT-1080 cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with SSB antibody (KVA00526, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



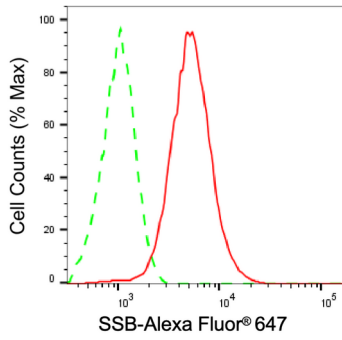
Western blotting analysis using SSB antibody (KVA00526). Total cell lysates (30  $\mu$ g for H9c2 and C2C12, 10  $\mu$ g for others) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SSB antibody (KVA00526, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with SSB antibody (KVA00526, 1:1,000). Nuclei were stained blue with DAPI; SSB was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.



Validation of SSB knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with SSB antibody (KVA00526, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of SSB expression in HepG2 cells using SSB antibody (KVA00526, 1:2,000). Green, isotype control; red, SSB.