

# SSB Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2801a

### **Product Information**

**Application** WB, IHC-P, FC, E

**Primary Accession** P05455 **Other Accession** P10881 Reactivity Human **Predicted** Bovine Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Calculated MW** 46837 66-96 **Antigen Region** 

## **Additional Information**

**Gene ID** 6741

Other Names Lupus La protein, La autoantigen, La ribonucleoprotein, Sjoegren syndrome

type B antigen, SS-B, SSB

**Target/Specificity** This SSB antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 66-96 amino acids from the N-terminal

region of human SSB.

**Dilution** WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent

concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** SSB Antibody (N-term) is for research use only and not for use in diagnostic or

therapeutic procedures.

#### **Protein Information**

Name SSB

**Function** Binds to the 3' poly(U) terminus of nascent RNA polymerase III transcripts,

protecting them from exonuclease digestion and facilitating their folding and

maturation (PubMed:<u>2470590</u>, PubMed:<u>3192525</u>). In case of Coxsackievirus B3 infection, binds to the viral internal ribosome entry site (IRES) and stimulates the IRES- mediated translation (PubMed:<u>12384597</u>).

**Cellular Location** 

Nucleus.

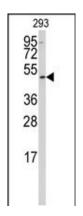
## **Background**

SSB is involved in diverse aspects of RNA metabolism, including binding and protecting 3-prime UUU(OH) elements of newly RNA polymerase III -transcribed RNA, processing 5-prime and 3-prime ends of pre-tRNA precursors, acting as an RNA chaperone, and binding viral RNAs associated with hepatitis C virus. This protein was originally defined by its reactivity with autoantibodies from patients with Sjogren syndrome and systemic lupus erythematosus.

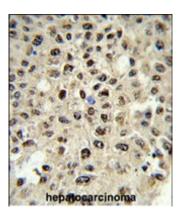
### References

Bitko, V., J. Virol. 82 (16), 7977-7987 (2008) Kotik-Kogan, O., Structure 16 (6), 852-862 (2008) Biswas, D., Clin. Rheumatol. 27 (6), 717-722 (2008)

## **Images**

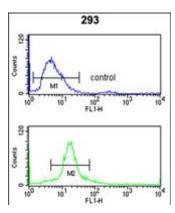


Western blot analysis of anti-SSB Antibody (N-term) (RB17351) in 293 cell line lysates (35ug/lane).SSB(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ELAVL1 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

SSB Antibody (N-term) (Cat. #AP2801a) flow cytometry analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



## **Citations**

• The cellular protein La functions in enhancement of virus release through lipid rafts facilitated by murine leukemia virus glycosylated Gag.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.