# SSB Antibody (N-Term) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | SSB, Blocking Peptide |
| **Full Product Name** | SSB Antibody (N-term) Blocking Peptide |
| **Product Gene Name** | SSB blocking peptide |
| **Product Synonym Names** | Lupus La protein; La autoantigen; La ribonucleoprotein; Sjoegren syndrome type B antigen; SS-B; SSB |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml. |
| **Specificity** | The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human SSB. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | SSB peptide (MBS9224837) is used for blocking the activity of SSB antibody (MBS9202809) |
| **Molecular Weight** | 46,837 Da |
| **OMIM** | 109090 |
| **Cellular Location** | Nucleus. |
| **Related Product Information for SSB blocking peptide** | Binds to the 3' poly(U) terminus of nascent RNA polymerase III transcripts, protecting them from exonuclease digestion and facilitating their folding and maturation. |
| **Other Notes** | Small volumes of SSB blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for SSB purchase** | MBS9224837 is a blocking peptide targeting SSB. Also known as SSB Antibody (N-term) Blocking Peptide. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SSB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 125985 |
| **NCBI GeneID** | 6741 |
| **NCBI Accession #** | P05455.2 |
| **UniProt Primary Accession #** | P05455 |
| **UniProt Secondary Accession #** | Q15367; Q53XJ4 |
| **UniProt Related Accession #** | P05455 |
| **NCBI Official Full Name** | Lupus La protein |
| **NCBI Official Synonym Full Names** | Sjogren syndrome antigen B |
| **NCBI Official Symbol** | SSB |
| **NCBI Official Synonym Symbols** | La; LARP3; La/SSB |
| **UniProt Protein Name** | Lupus La protein |

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| **UniProt Synonym Protein Names** | La autoantigen; La ribonucleoprotein; Sjoegren syndrome type B antigen; SS-B |
| **Protein Family** | Heat shock protein |
| **UniProt Gene Name** | SSB |
| **UniProt Synonym Gene Names** | SS-B |
| **UniProt Entry Name** | LA_HUMAN |
| **NCBI Protein Information** | lupus La protein |
| **NCBI Summary for SSB** | 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] |
| **UniProt Comments for SSB** | SSB: a nuclear protein that plays a role in the transcription of RNA polymerase III. It is most probably a transcription termination factor. Binds to the 3' termini of virtually all nascent polymerase III transcripts. It is associated with precursor forms of RNA polymerase III transcripts including tRNA and 4.5S, 5s, 7s, and 7-2 RNAs.<br><br>Protein type: Transcription initiation complex<br><br>Chromosomal Location of Human Ortholog: 2q31.1<br><br>Cellular Component: nuclear chromosome, telomeric region; nucleus<br><br>Molecular Function: mRNA binding; protein binding; tRNA binding<br><br>Biological Process: histone mRNA metabolic process; tRNA modification |
| **Research Articles on SSB** | **1.** At the 3' UTR, HUR facilitates circularization of the viral genome through interaction with another host factor, La, which is critical for replication. |
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