

***E. coli* Single-stranded DNA Binding Protein (SSB)**

02-042 200 ug # 02-042-5 1 mg

E. coli single-stranded DNA binding protein (SSB) binds to single-stranded DNA with high specificity (1, 2). It is involved in DNA replication and recombination *in vivo*. The SSB gene was expressed as the recombinant protein in *E. coli* then purified. The molecular mass is 18.9 kDa.

Applications

1. Functional single-stranded DNA-binding protein for studying DNA replication and recombination
2. Enhancement of the specificity and yield of PCR

Specification

Quality: Greater than 95% purity as determined by SDS-PAGE (CBB staining). The absence of endonucleases and exonucleases was confirmed.

Form: 5 mg/ml in 20mM Tris-HCl (pH 7.6), 200mM NaCl, 1mM dithiothreitol, 1mM EDTA, 50% glycerol

Storage: -20°C

Data Link: UniProtKB/Swiss-Prot [P0AGE0](#) (SSB_ECOLI)

References:

1. Krauss G et al (1981) "Escherichia coli single-strand deoxyribonucleic acid binding protein: Stability, specificity, and kinetics of complexes with oligonucleotides and deoxyribonucleic acid." *Biochemistry* 20: 5346-5352 PMID: [7028102](#)
2. Weiner JH et al (1975) "The deoxyribonucleic acid unwinding protein of Escherichia coli. Properties and functions in replication." *J. Biol. Chem.* 250:1972-1980 PMID: [1090613](#)

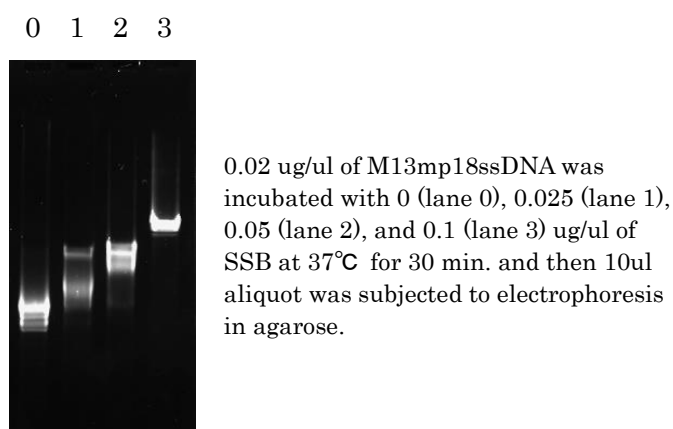
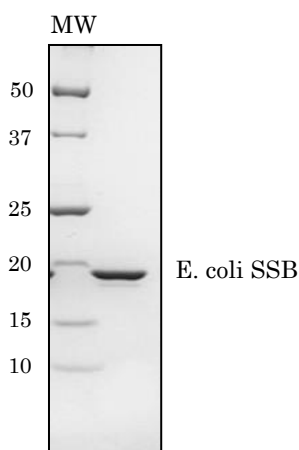


Fig. 1 SDS-PAGE of *E. coli* SSB protein

Fig. 2 Binding activity to single-stranded DNA

Related product: [#02-040](#) T4 SSB protein, [#02-044](#) Taq SSB

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