

Datasheet for ABIN2452175

SSB Protein



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Overview

Quantity:	200 µg
Target:	SSB
Origin:	E. coli
Source:	Escherichia coli (E. coli)
Protein Type:	Native
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Purity:	> 95 % purity as determined by SDS-PAGE (CBB staining)
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Target Details

Target:	SSB
Abstract:	SSB Products
Background:	E.coli single-stranded DNA binding protein (SSB) binds to single-stranded DNA with high specificity. It is involved in DNA replication and recombination in vivo. The SSB gene was expressed as the recombinant protein in E.coli highly purified. The molecular mass is 18.9 kDa.
UniProt:	P0AGE0

Application Details

Application Notes:	1. Functional single-stranded DNA-binding protein for studying DNA replication and
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Application Details

recombination

2. Enhancement of the specificity and yield of PCR

Comment: The absence of endonucleases and exonucleases was confirmed.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 5 mg/mL

Buffer: 20 mM Tris-HCl (pH 7.6), 200 mM NaCl, 1 mM dithiothreitol, 1 mM EDTA, 50 % glycerol

Preservative: Dithiothreitol (DTT)

Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Publications

Product cited in: Krauss, Sindermann, Schomburg, Maass: "Escherichia coli single-strand deoxyribonucleic acid binding protein: stability, specificity, and kinetics of complexes with oligonucleotides and deoxyribonucleic acid." in: **Biochemistry**, Vol. 20, Issue 18, pp. 5346-52, (1982) ([PubMed](#)).

Weiner, Bertsch, Kornberg: "The deoxyribonucleic acid unwinding protein of Escherichia coli. Properties and functions in replication." in: **The Journal of biological chemistry**, Vol. 250, Issue 6, pp. 1972-80, (1975) ([PubMed](#)).

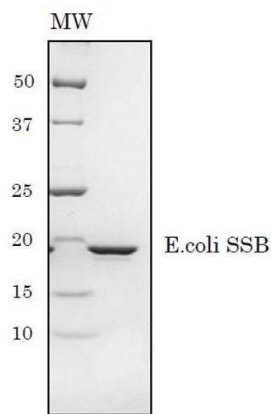
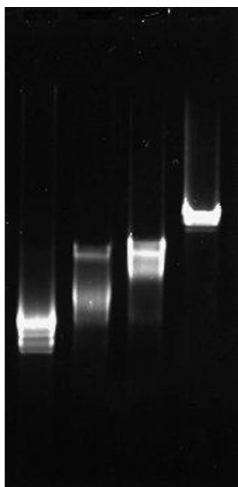


Fig.1 SDS-PAGE of *E.coli* SSB protein

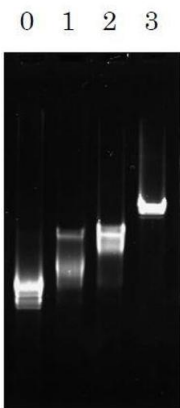
Western Blotting

Image 1.



Polymerase Chain Reaction

Image 2.



0.02 ug/ul of M13mp18ssDNA was incubated with 0 (lane 0), 0.025 (lane 1), 0.05 (lane 2), and 0.1(lane 3) ug/ul of SSB at 37 °C for 30 min. and then 10ul aliquot was subjected to electrophoresis in agarose.

Polymerase Chain Reaction

Image 3.