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Datasheet for ABIN2452212
Taq SSB (Active) Protein

4 Images

1 Publication

Overview

Quantity:	100 µg
Target:	Taq SSB
Origin:	Thermus aquaticus
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Characteristics:	The absence of endonucleases and exonucleases was confirmed.
Purity:	> 95 % of protein determined by SDS-PAGE (CBB staining)

Target Details

Target:	Taq SSB
Background:	Thermus aquaticus derived single-stranded DNA binding protein (SSB) is a thermostable protein which binds to single-stranded DNA with high specificity but does not bind well to double-stranded DNA. It plays important roles in DNA replication and recombination. Thermus aquaticus SSB gene was expressed in E.Coli in large quantities and the protein was highly purified. MW is 30.0 kDa, same as that of the natural protein.
UniProt:	Q9KH06

Application Details

Application Notes: Stabilizes single-stranded DNA in DNA replication, repair, and recombination

Comment: Activity: Single-stranded DNA binding activity was confirmed.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: 50 mM Tris-HCl (pH 8.0), 200 mM NaCl, 0.1 mM dithiothreitol, 0.5 mM EDTA, 50% glycerol

Preservative: Dithiothreitol (DTT)

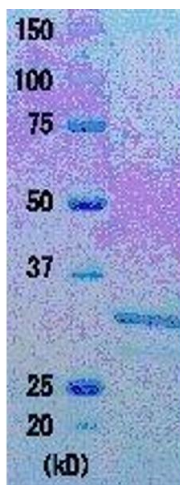
Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Publications

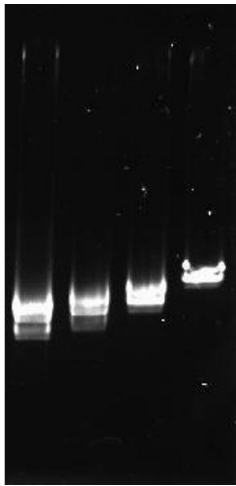
Product cited in: Dabrowski, Olszewski, Piatek, Kur: "Novel thermostable ssDNA-binding proteins from *Thermus thermophilus* and *T. aquaticus*-expression and purification." in: **Protein expression and purification**, Vol. 26, Issue 1, pp. 131-8, (2002) ([PubMed](#)).

Images



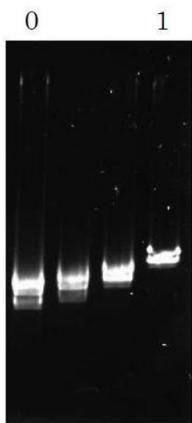
SDS-PAGE

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.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2452212.