

Recombinant *B. burgdorferi* OspA Protein, MBP-tagged

Cat. No. OspA-07B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Borrelia burgdorferi</i> OspA protein produced in <i>E. coli</i> . Protein contains a MBP-tag and is visible on SDS-PAGE at 70.5 kDa for OspA-MBP (28.1 kDa for OspA, 42.4 kDa for MBP alone kDa).
Species	<i>Borrelia burgdorferi</i> B31
Source	<i>E. coli</i>
Description	Outer-Surface Protein A (OspA) is a 31 kDa lipoprotein encoded by <i>Borrelia burgdorferi</i> and is a major component of the spirochete's extracellular matrix, probably associated with lipid rafts and serving as a lipid-anchor (Toledo, et al., 2014). Strain B31 is the type strain (ATCC 35210) for this organism and was derived by limited dilutional cloning from the original Lyme-disease tick isolate obtained by A. Barbour. The <i>Borrelia</i> species causing Lyme disease express different OspA serotypes on their surface, <i>B. burgdorferi</i> (serotype 1), <i>B. afzelii</i> (serotype 2), <i>B. garinii</i> (serotypes, 3, 5 and 6) and <i>B. bavariensis</i> (serotype 4).
Form	Liquid, 0.2 µm filter sterilised.
Molecular Mass	70.5 kDa for OspA-MBP (28.1 kDa for OspA, 42.4 kDa for MBP alone kDa)
Purity	> 90%
Storage	Store vial at -20 centigrade prior to opening. Aliquot contents and freeze at -20 centigrade or below for long term storage. Centrifuge product if not completely clear

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after standing at room temperature. Dilute only prior to immediate use.
Can be frozen, but avoid multiple freeze/thaw cycles.

Concentration 1.04 mg/mL by UV absorbance at 280 nm

Storage Buffer In 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 and 0.01% (w/v) Sodium Azide.

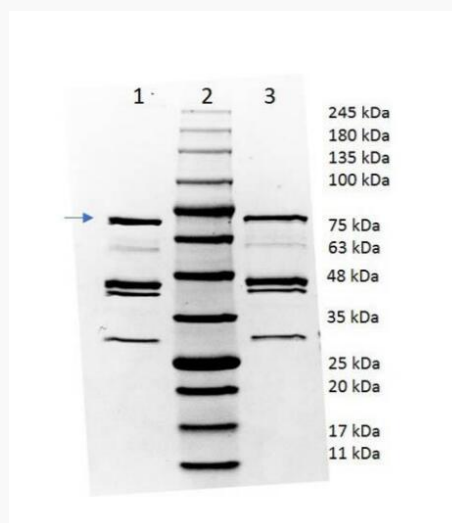
GENE INFORMATION

Official Symbol [OspA](#)

Synonyms OspA; OSPA; outer surface protein A

Protein Refseq [ZP_03087263](#)

SDS-PAGE



Lane 1: Non-Reduced OspA protein.

Lane 2: Molecular Weight Marker.

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Lane 3: Reduced OspA protein.

Load: 1 µg.

Predicted/Observed size: ~70.5 kDa fusion protein (arrowhead), ~42.4 kDa for MBP,
~28.1 kDa for OspA.

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