

Recombinant *B. afzelii* ospC Antigen, His&TrxA tagged

Cat. No. ospC-041B **Lot. No.** (See product label)

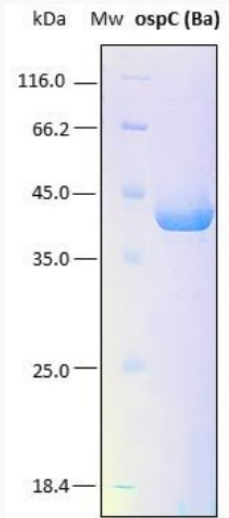
SPECIFICATION

Product Overview	The <i>Borrelia afzelii</i> antigen ospC has been prepared as a recombinant antigen fused to the thioredoxine protein and a his-tag in its N-terminus. It is produced from the complete ORF of the gene of the outer surface protein C.
Species	<i>B.afzelii</i>
Source	E.coli
Description	Outer membrane protein ospC is essential for the invasive strategy of the pathogenic spirochete responsible for Lyme disease. Detection of anti-OspC borreliacidal antibodies, especially IgM antibodies, in early Lyme borreliosis sera provides additional evidence that borreliacidal antibody detection may be useful for the serodiagnosis of early Lyme borreliosis.
Tag	N-His&TrxA
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 35 and 45 kDa, while relative molecular mass calculated from amino acid sequence is 39,224.30 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and

 Tel: 1-631-559-9269 1-516-512-3133

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	stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 8, 0.15 M NaCl and 0,1% polyoxyethylene (10) tridecylether
Concentration	3.71 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Lagal, V., le Postic, D., Ruzic-Sabljić, E., and G. Baranton. Genetic Diversity among <i>Borrelia</i> Strains Determined by Single-Strand Conformation Polymorphism Analysis of the <i>ospC</i> Gene and Its Association with Invasiveness. 2003. <i>Journal of Clinical Microbiology</i>, 41:5059–5065. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. <i>Anal Biochem</i>. 1989 Nov 1;182(2):319-26.
Purity	 SDS-PAGE analysis (15%) of 1

μL of recombinant ospC. Purity is > 95% as determined by gel electrophoresis

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