

Recombinant *Borrelia afzelii* flaB Antigen, His&TrxA tagged

Cat. No. flaB-018B **Lot. No.** (See product label)

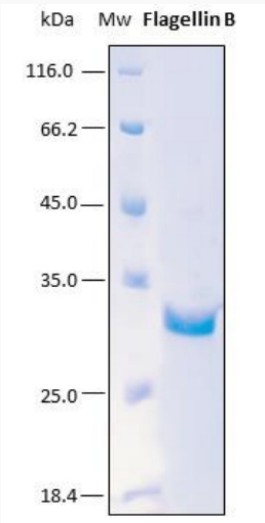
SPECIFICATION

Product Overview	The central region of the <i>Borrelia afzelii</i> flaB gene has been expressed as a recombinant antigen fused to a TrxA and a his-tag in its N-terminus.
Species	<i>Borrelia afzelii</i>
Source	E.coli
Description	Flagellin is the subunit protein that polymerizes to form the filaments of bacterial flagella. It consists of 336 amino acids. <i>Borrelia</i> flagellin contains conserved and semi-conserved regions located at the N- and C-termini of the protein, whereas the central area exhibits variability. Many <i>Borrelia</i> -specific epitopes were found in this variable central region, and therefore, it has been described as a suitable antigen to test bacterial genera.
Tag	N-His&TrxA
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 25 and 35 kDa, while relative molecular mass calculated from amino acid sequence is 25,625.57 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

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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 7, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.16 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Jiang, W. Luft, B.J., Schubach, W., Dattwyler, R.J. and P.D. Gorevic. Mapping the Major Antigenic Domains of the Native Flagellar Antigen of <i>Borrelia burgdorferi</i>. 1992, Journal of Clinical Microbiology, 30:1535-1540. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Purity	 SDS-PAGE analysis (15%) of 5 µL of recombinant flagellin B Ba. Purity is approx.

95% as determined by gel electrophoresis.

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