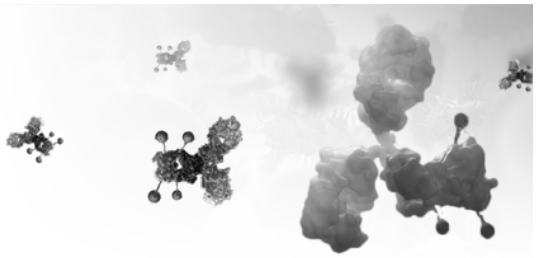

Rabbit Anti-B. burgdorferi VlsE Polyclonal antibody (CABT-CS899)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	B. burgdorferi VlsE
Target	B. burgdorferi VlsE
Immunogen	MBP recombinant protein corresponding to Borrelia burgdorferi VlsE protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	B. burgdorferi
Purification	Protein A
Conjugate	unconjugated
Applications	WB, ELISA
Format	Lyophilized
Size	100 µg
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative	0.01% (w/v) Sodium Azide
Storage	Store vial at 4°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use.

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BACKGROUND

Introduction	Variable Lipoprotein Surface-Exposed protein, or VlsE, is a lipoprotein on the surface of the Lyme Disease spirochete Borrelia burgdorferi, detectable during all its life stages. It can exist as many different isoforms. VlsE has variable regions (VRs) and invariable regions (IRs). Some IRs are anchored in the outer membrane of the bacteria and some are antigens exposed on the membrane surface. Replacement of the VR by Borrelia within days of being transferred to a mammalian host presents new surface antigens to the host immune system, and helps Borrelia avoid a strong reaction by host immune systems. The VlsE is apparently not modified as much in the tick or in the rodent vector, when compared to in the mammal host. Several putative envelope proteins of B. burgdorferi appear to be expressed only in the infected mammalian host. The VRs are antigenic, irregularly shaped loops on the bacterial surface which may help to hide both membrane-incorporated and surface portions of adjacent proteins from immune cells.
Keywords	Borrelia burgdorferi; B. burgdorferi; B. burgdorferi VlsE; Variable Lipoprotein Surface-Exposed protein; VlsE

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