

Datasheet for ABIN964726 anti-VIsE antibody

1 Image



Overview

Quantity:	100 µg
Target:	VIsE
Reactivity:	Borrelia burgdorferi
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	VIsE Antibody
Immunogen:	Immunogen: MBP recombinant protein corresponding to Borrelia burgdorferi VIsE protein. Immunogen Type: Recombinant Protein
lsotype:	lgG
Cross-Reactivity (Details):	This antibody is specific for Borrelia burgdorferi VIsE protein.
Characteristics:	Synonyms: rabbit anti-VIsE Antibody, Outer surface protein VIsE, Borrelia burgdorferi VIsE, vIsE protein
Purification:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography.

Target Details

Target:	VIsE
Background:	Background: Variable Lipoprotein Surface-Exposed protein, or VIsE, is a lipoprotein on the

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN964726 | 03/28/2025 | Copyright antibodies-online. All rights reserved. surface of the Lyme Disease spirochete Borrelia burgdorferi, detectable during all its life stages. It can exist as many different isoforms. VIsE 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 VIsE 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. These VR loops are coded by antigenic cassettes. The protein loops can therefore be switched in or out of the protein, or different type loops traded. In B. burgdorferi there seem to be at least fifteen different VIsE cassettes that can insert into any of the variable regions of VIsE, allowing it to appear as millions of different antigens. Similar, but smaller, systems also operate for OSP-A, OSP-B, OSP-C, and other proteins. Some current research involves determination of control of cassette activation. One IR region, C6, of the VISE protein, consistently stimulates a strong immune response. Its presentation may be a decoy that misdirects the immune system from less protected sites by causing competition for binding antibodies. The bound antibodies are thus not available for binding important therapeutic proteins. This may help Borrelia to enter T-cells, leading to their destruction. Because IR6 is invariable and found in all life stages of B. burgdorferi, it has been used in an ELISA diagnostic test for early IgM of Lyme Disease.

Gene ID:	11473645
NCBI Accession:	WP_010890281
UniProt:	G5IXI6

Application Details

Application Notes:	Application Note: Anti-VIsE antibody has been tested in ELISA and Western Blot. Specific
	conditions for reactivity should be optimized by the end user. Expect a band at \sim 36.3 kDa in
	size corresponding to VIsE by Western blotting in the appropriate cell lysate or extract.
	Western Blot Dilution: 1:1000
	ELISA Dilution: 1:250
	Other: User Optimized
Restrictions:	For Research Lise only

Restrictions:

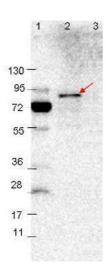
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Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL
	Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot showing detection of 0.1 µg of recombinant VIsE protein. Lane 1: Molecular weight markers. Lane 2: MBP-VIsE fusion protein (arrow; expected MW: 78.8 kDa). Lane 3: MBP alone. Protein was run on a 4-20% gel, then transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS, diluted to 1X) overnight at 4°C, primary antibody was used at 1:1000 at room temperature for 30 min. HRP-conjugated Goat-Anti-Rabbit secondary antibody was used at 1:40,000 in ABIN925618 blocking buffer and imaged on the MP 4000 imaging system (Bio-Rad).