Datasheet for ABIN964635

anti-ErpD/Arp37 antibody

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Overview

Quantity:	100 µg
Target:	ErpD/Arp37
Reactivity:	Borrelia burgdorferi
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Erpd/Arp37 Antibody
Immunogen:	Immunogen: MBP-fusion protein corresponding to Borrelia burgdorferi ErpD/Arp37 protein. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	It is directed against, and shows specific reactivity for, Borrelia burgdorferi ErpD protein.
Characteristics:	Synonyms: Rabbit anti-ErpD Antibody, rabbit anti-Arp37 Antibody, rabbit anti-Arp37/ErpD Antibody, Arp37, Borrelia burgdorferi ErpD
Purification:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography.

Target Details

Target:	ErpD/Arp37
Background:	Background: This product is antibody made against ErpD (ospE/F-Related Protein D), also

Target Details

	known as Arp37, from the spirochete Borrelia burgdorferi, which is carried by Ixodes ticks. Erp proteins from Borrelia burgdorferi are postulated to be lipoproteins, based on their predicted amino acid sequences. The spirochete migrates from the tick midgut during feeding to its salivary glands and are thus transmitted to the mammal host. This transition may be facilitated by changes in expression of some B. burgdorferi genes. It is believed that expression of the various proteins associated with the spirochete may be regulated by the changes in tick life cycle, changes in conditions during tick feeding (such as temperature, pH , and nutrients) and/or in coordination with the course of infection of the mammal host. Several studies have demonstrated that infected humans and animals produce antibodies directed against Erp proteins within the first 2-4 weeks of infection, indicative of Erp synthesis during the initial stages of vertebrate infection. It is postulated that surface-exposed Erp proteins could facilitate interactions with host tissues during the establishment of vertebrate infection.
Gene ID:	1194073
NCBI Accession:	WP_010890266
UniProt:	G5IXI1

Application Details

Application Notes:	Application Note: Anti-ErpD antibody has been tested in ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect bands at ~37.5 kDa and ~65 kDa in size corresponding to ErpD/Arp37 by Western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:1,000 ELISA Dilution: >1:5,000 Other: User Optimized
Restrictions:	For Research Use only

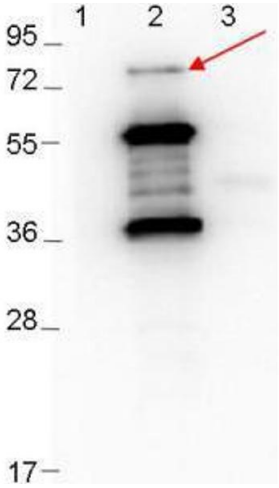
Handling

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

Handling

	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 recombinant proteins in western blot. Lane 1: Molecular weight markers. Lane 2: MBP-ErpD/Arp37 fusion proteins (arrow: expected MW of major band: 73.3 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).