

Datasheet for ABIN964622
anti-YBX3/DBPA antibody



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1 Image

Overview

| | |
|--------------|------------------------------|
| Quantity: | 100 µg |
| Target: | YBX3/DBPA (YBX3) |
| Reactivity: | Borrelia burgdorferi |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Western Blotting (WB), ELISA |

Product Details

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|-----------------------------|---|
| Purpose: | DbpA Antibody |
| Immunogen: | Immunogen: MBP-fusion protein corresponding to Borrelia burgdorferi Dbp-A protein. Immunogen Type: Recombinant Protein |
| Isotype: | IgG |
| Cross-Reactivity (Details): | This antibody is specific for Borrelia burgdorferi DbpA protein. |
| Characteristics: | Synonyms: rabbit anti-DbpA Antibody, Decorin-binding Protein, Borrelia burgdorferi DbpA, dbp-A, dbp A |
| Purification: | This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography. |

Target Details

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|-------------------|---|
| Target: | YBX3/DBPA (YBX3) |
| Alternative Name: | DBP A (YBX3 Products) |

Target Details

Background: Background: This product is antibody made against DbpA, or Decorin Binding Protein A from the spirochete *Borrelia burgdorferi*, which is carried by Ixodes ticks. DbpA from other microbial organisms such as *E. coli* (ATP-dependent RNA helicase DbpA) are significantly different. The spirochete migrates from the tick midgut during tick feeding to tick salivary glands and are thus transmitted to the mammal host. This transition may be facilitated by changes in expression of some *B. burgdorferi* genes. Spirochetal surface adhesions mediate attachment to decorin, a major component of the host extracellular matrix, enabling bacteria to colonize in mammalian tissues. 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.

Gene ID: 1194347

NCBI Accession: [WP_010890380](#)

UniProt: [O50917](#)

Application Details

Application Notes: Application Note: This protein-A purified antibody has been tested for use in ELISA and Western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 18.5 kDa in size corresponding to *Borrelia burgdorferi* DbpA protein 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 μ L

Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 1.0 mg/mL

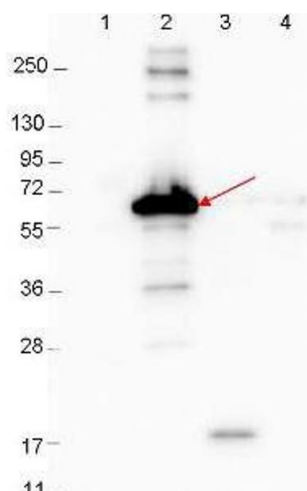
Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Handling

| | |
|--------------------|---|
| | 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-DbpA fusion protein (arrow; expected MW: 60.9 kDa). Lane 3: DbpA, MBP removed by TEV cleavage. Lane 4: 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).