



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
Conjugate:	This YBX3/DBPA antibody is un-conjugated
Application:	Western Blotting (WB), Lateral Flow (LF)

Product Details

Immunogen:	MBP-fusion protein corresponding to Borrelia burgdorferi Dbp-A protein. Immunogen Type: RecombinantProtein
Isotype:	IgG
Specificity:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography. This antibody is specific for Borrelia burgdorferi DbpA protein. A BLAST analysis was used to suggest cross-reactivity with DbpA from Borrelia burgdorferi sources based on 100% homology with the immunizing sequence. Partial reactivity is expected against Borrelia garinii sources based on 60-80% homology. Cross-reactivity with DbpA from other sources has not been determined.
Characteristics:	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

Product Details

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.

Target Details

Target: YBX3/DBPA (YBX3)

Alternative Name: DBP A ([YBX3 Products](#))

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.

Synonyms: Decorin-binding Protein A, *Borrelia burgdorferi* dbpA

Gene ID: 1194347

NCBI Accession: [NP_045697](#)

UniProt: [O50917](#)

Application Details

Application Notes: This protein-A purified antibody has been tested for use in 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.

Comment: Gene Name: dbpA, BB_A24

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 μ L

Concentration: 1.0 mg/mL

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

Preservative: Sodium azide

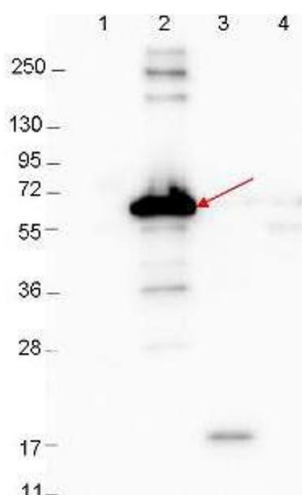
Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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. Expiration date is one (1) year from date of opening.

Expiry Date: 12 months

Images



Western Blotting

Image 1. Western blot showing detection of 0.1 μ g 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 μ m 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).