

Datasheet for ABIN964624  
**anti-YBX1 antibody**



[Go to Product page](#)

1 Image

## Overview

Quantity:	100 µg
Target:	YBX1
Reactivity:	Borrelia burgdorferi
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

## Product Details

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

## Target Details

Target:	YBX1
Alternative Name:	DbpB ( <a href="#">YBX1 Products</a> )

## Target Details

Background:	Background: Decorin-binding protein B, or DbpB, binds to decorin, which may mediate the adherence of B.burgdorferi to collagen fibers in skin and other tissues. Spirochetal surface adhesions mediate attachment to decorin, a major component of the host extracellular matrix enabling bacteria to colonize in mammalian tissues. 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. Borrelia burgdorferi can colonize multiple tissues, and is capable of attachment to diverse cell types. The expression of decorin-binding protein (Dbp) A and/or DbpB, two B. burgdorferi surface proteins that bind GAGs, is sufficient to convert a high-passage nonadherent B. burgdorferi strain into one that efficiently binds 293 epithelial cells.
Gene ID:	1194341
NCBI Accession:	<a href="#">WP_010890381</a>
UniProt:	<a href="#">P0CL68</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a>

## 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 user. Expect a band approximately 17.9 kDa in size corresponding to Borrelia burgdorferi DbpB protein by Western blotting in the appropriate cell lysate or extract.  Western Blot Dilution: 1:1,000  Other: User Optimized
Restrictions:	For Research Use only

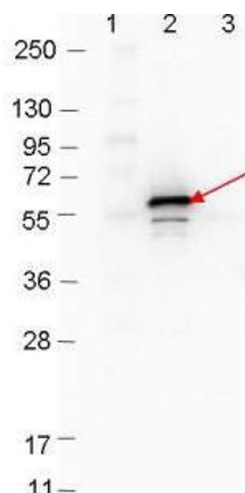
## Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL  Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL

## Handling

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 DbpB protein. Lane 1: Molecular weight markers. Lane 2: MBP-DbpB fusion protein (arrow; expected MW = 60.3 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).