

Datasheet for 200-401-B98**DbpA Antibody****Overview**

Description:	Anti-DbpA (RABBIT) Antibody - 200-401-B98
Item No.:	200-401-B98
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Borrelia burgdorferi
Host Species:	Rabbit

Product Details

Background:	This product is antibody made against DbpA, or Decorin Binding Protein A from the spirochete <i>Borrelia burgdorferi</i> , which is carried by Ixodes ticks. DbpA from other microbial organisms such as <i>E. coli</i> (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 <i>B. burgdorferi</i> 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:	rabbit anti-DbpA Antibody, Decorin-binding Protein, <i>Borrelia burgdorferi</i> DbpA, dbp-A, dbp A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	dbpA, BB_A24
Reactivity:	<i>Borrelia burgdorferi</i>
Immunogen Type:	Recombinant Protein

Immunogen:	MBP-fusion protein corresponding to <i>Borrelia burgdorferi</i> Dbp-A protein.
Purity/Specificity:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography. This antibody is specific for <i>Borrelia burgdorferi</i> DbpA protein. A BLAST analysis was used to suggest cross-reactivity with DbpA from <i>Borrelia burgdorferi</i> sources based on 100% homology with the immunizing sequence. Partial reactivity is expected against <i>Borrelia garinii</i> sources based on 60-80% homology. Cross-reactivity with DbpA from other sources has not been determined.
Relevant Links:	• UniProtKB - O50917 • NCBI - WP_010890380.1 • GenelD - 1194347

Application Details

Tested Applications:	ELISA, WB
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 <i>Borrelia burgdorferi</i> DbpA protein by Western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
WB:	1:1,000

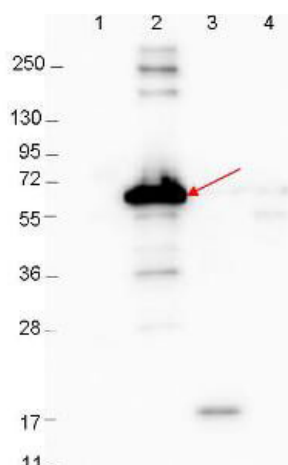
Formulation

Physical State:	Lyophilized
Concentration:	1.06 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

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 (p/n MB-013, 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 (p/n 611-103-122) secondary antibody was used at 1:40,000 in MB-070 blocking buffer and imaged on the VersaDoc™ MP 4000 imaging system (Bio-Rad).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.