

Datasheet for ABIN964648 anti-Flagellin antibody

Image



Overview

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

Product Details

Purpose:	Flagellin Antibody
Immunogen:	Immunogen: MBP-fusion protein corresponding to Borrelia burgdorferi Flagellin protein. Immunogen Type: Recombinant Protein
Isotype:	lgG
Cross-Reactivity (Details):	This antibody is specific for Lyme Borrelia spp.
Characteristics:	Synonyms: rabbit anti-Flagellin Antibody, 41 kDa antigen, Borrelia burgdorferi p41, fla, Flagellar filament 41 kDa core protein, Bacterial flagellin.
Purification:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography.

Target Details

Target:	Flagellin (FliC)
Alternative Name:	Flagellin (FliC Products)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN964648 | 03/28/2025 | Copyright antibodies-online. All rights reserved. Background:

Background: Flagellin is a protein found in the hollow cylinder forming the filament in bacterial flagellum. Its structure is helical, which is important for its function. Studies comparing aflagellate Borrelia to flagellated indicate that the flagella have a role in the invasion of human tissue. The N- and C-termini of flagellin form the inner core of the flagellar filament, and the central portion of the protein makes up the outer surface. While the terminus of the protein is quite similar between all bacterial flagellins, the central portion is variable. The flagellin genes are highly conserved among the different Borrelia species. Mammals often have acquired immune responses (T-cell and antibody responses) to flagellated bacterium. Some bacteria are able to switch between multiple flagellin genes in order to evade this response. Borrelia burgdorferi, the spirochete that is associated with Lyme Disease, may use this tactic when challenging mammals with infection. Borrelia have double-stranded linear plasmids in addition to supercoiled circular plasmids, in low copy number. This suggests that initiation of DNA replication and partitioning are carefully controlled during the cell division cycle. 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, i.e., changes in environment as the spirochete migrates from the tick's midgut to its salivary glands to the mammal host. B. burgdorferi can attach to (and also differentially express antigens in) diverse tissues within the vertebrate host and the tick vector, suggesting that physiological factors other than pH and temperature may play roles in modulating B. burgdorferi gene expression.

Gene ID:	7106737
NCBI Accession:	WP_002661938
UniProt:	P11089
Pathways:	Inflammasome

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 33.9 kDa in size corresponding to Borrelia burgdorferi Flagellin protein by
	Western blotting in the appropriate cell lysate or extract.
	Western Blot Dilution: 1:1,000
	ELISA Dilution: 1:6,000
	Other: User Optimized

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Application Details

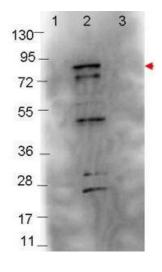
Restrictions:

For Research Use only

Handling

Lyophilized
Reconstitution Volume: 100 µL
Reconstitution Buffer: Restore with deionized water (or equivalent)
1.0 mg/mL
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: None
Preservative: 0.01 % (w/v) Sodium Azide
Sodium azide
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
should be handled by trained staff only.
4 °C,-20 °C
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.
12 months

Images



Western Blotting

Image 1. Western blot showing detection of 0.1 μ g of recombinant Flagellin protein. Lane 1: Molecular weight markers. Lane 2: MBP-Flagellin fusion protein (arrowhead at expected MW: 76.3 kDa). Lane 3: 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).

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