

Datasheet for ABIN964724

anti-Surface Lipoprotein P27 (BB_A60) antibody



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1 Image

Overview

Quantity:	100 µg
Target:	Surface Lipoprotein P27 (BB_A60)
Reactivity:	Borrelia burgdorferi
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Surface Lipoprotein p27 Antibody
Immunogen:	Immunogen: MBP-fusion protein corresponding to Borrelia burgdorferi Surface Lipoprotein p27 protein. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	It is directed against, and shows specific reactivity for, Borrelia burgdorferi p27 protein.
Characteristics:	Synonyms: rabbit anti-Surface Lipoprotein p27 Antibody, BBA060 protein, Borrelia burgdorferi p27
Purification:	This antibody was purified from monospecific antiserum by protein-A purified immunoaffinity chromatography, and cross-adsorbed against MBP.

Target Details

Target:	Surface Lipoprotein P27 (BB_A60)
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Target Details

Alternative Name: BB_A60

Background: Background: Surface Lipoprotein p27 of *Borrelia burgdorferi* is a surface-exposed lipoprotein that has been shown (by Western blot and Northern blot) to be expressed in the European B. burgdorferi strain B29, but not in the American strain B31. Cell envelope proteins of bacterial pathogens play important roles in the host-parasite interactions that occur during infection, including cell adherence, cell invasion, and immune cell activation or evasion. p27 is a basic protein of 248 amino acids with a typical prokaryotic leader sequence of 17 amino acid residues at the N-terminus of the proposed translation product. The p27 gene is located on a linear plasmid of a size of approximately 55 kb. *Borrelia* spirochetes are unique among diderm bacteria in their abundance of surface-displayed lipoproteins, some of which play important roles in the pathogenesis of Lyme disease and relapsing fever. There is evidence that *Borrelia* lipoproteins are specifically targeted to the bacterial surface, but that they can be retained in the periplasm by sequence-specific signals.

Gene ID: 1194336

NCBI Accession: [WP_010890395](#)

UniProt: [O50951](#)

Application Details

Application Notes: Application Note: Anti-Surface Lipoprotein p27 antibody has been tested in ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~30.9 kDa in size corresponding to p27 by Western blotting in the appropriate cell lysate or extract.

Western Blot Dilution: 1:1,000

ELISA 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 p27 protein. Lane 1: Molecular weight markers. Lane 2: MBP-p27 fusion protein (arrow; expected MW: 73.3 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).