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Product datasheet for TA396886

BB_A60 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**WB**: 1:1,000 **ELISA**: >1:5,000
Reactivity:	Borrelia burgdorferi
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	MBP-fusion protein corresponding to Borrelia burgdorferi Surface Lipoprotein p27 protein.
Specificity:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography. It is directed against, and shows specific reactivity for, Borrelia burgdorferi p27 protein. Reactivity with p27 protein from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Method:	Restore with deionized water (or equivalent) - Reconstitution Volume: 100 µL
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.
Database Link:	O50951

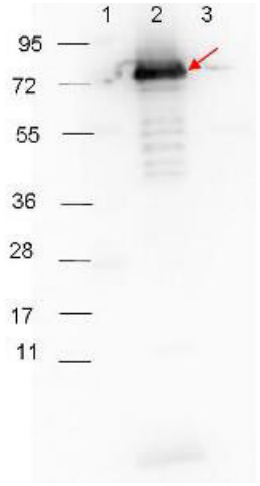
View online »

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.

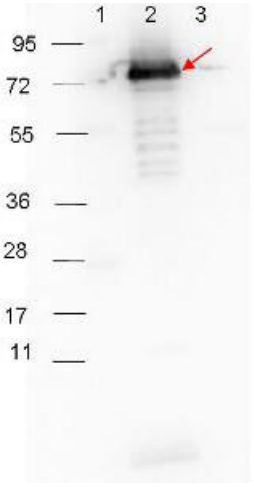
Synonyms: rabbit anti-Surface Lipoprotein p27 Antibody, BBA060 protein, Borrelia burgdorferi p27

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.

Product images:



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 (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).



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