

Anti-Surface Lipoprotein p27 (RABBIT) Antibody
Surface Lipoprotein p27 Antibody
Catalog # ASR4461**Specification**

Anti-Surface Lipoprotein p27 (RABBIT) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	<i>Borrelia burgdorferi</i>
Clonality	Polyclonal
Application	WB, E, I, LCI
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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	MBP-fusion protein corresponding to <i>Borrelia burgdorferi</i> Surface Lipoprotein p27 protein.
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-Surface Lipoprotein p27 (RABBIT) Antibody - Additional Information**Other Names**

1194336

Purity

This antibody was purified from monospecific antiserum by protein-A purified immunoaffinity chromatography, and cross-adsorbed against MBP. It is directed against, and shows specific reactivity for, *Borrelia burgdorferi* p27 protein. Reactivity with p27 protein from other sources has not been determined.

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

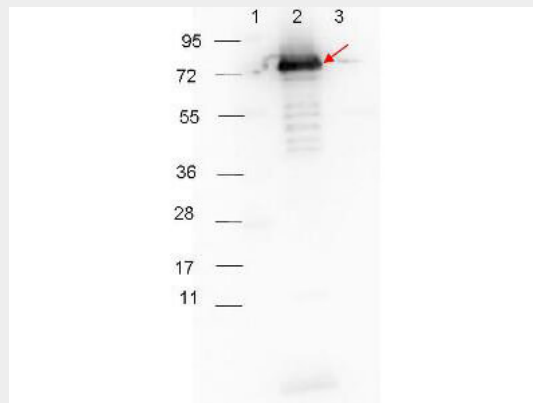
Anti-Surface Lipoprotein p27 (RABBIT) Antibody - Protein Information

Anti-Surface Lipoprotein p27 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Surface Lipoprotein p27 (RABBIT) Antibody - 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).

Anti-Surface Lipoprotein p27 (RABBIT) Antibody - 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.