10320 Camino Santa Fe, Suite G
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Anti-p35 (RABBIT) Antibody

p35 Antibody
Catalog # ASR4445

Specification

Anti-p35 (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Borrelia burgdorferi**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**This protein-A purified antibody has been tested for use in Western blotting and ELISA. Specific conditions for reactivity should be optimized by the user. Expect a band approximately 27.1 kDa in size corresponding to Borrelia burgdorferi OspA protein 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 Borrelia burgdorferi p35 protein.**
Reconstitution Volume	**100 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-p35 (RABBIT) Antibody - Additional Information

Other Names
1194146

Purity
This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography. This antibody is specific for Borrelia burgdorferi p35 protein. A BLAST analysis was used to suggest cross-reactivity with p35 from B. burgdorferi, garinii, and afzelii sources based on 100% homology with the immunizing sequence. Cross-reactivity with p35 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.

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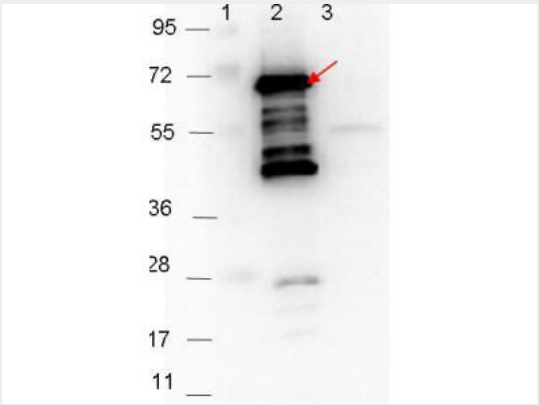
Anti-p35 (RABBIT) Antibody - Protein Information

Anti-p35 (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 Cytomety
- Cell Culture

Anti-p35 (RABBIT) Antibody - Images



Western blot showing detection of 0.1 µg of recombinant p35 protein. Lane 1: Molecular weight markers. Lane 2: MBP-p35 fusion protein (arrow; expected MW: 69.5 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-p35 (RABBIT) Antibody - Background

The p35 kDa protein of the spirochete Borrelia burgdorferi is being investigated for use as an early diagnostic marker of Lyme Disease. Borrelia may change its antigenic composition in its need for adaptation to stresses imposed by changes in conditions from cycling between its arthropod and mammalian hosts. This group of B. burgdorferi proteins may be induced in the tick midgut during the feeding event. The p35 protein elicits a protective immunity from wild type B. burgdorferi. It has been shown that p35 expression in B. burgdorferi is upregulated in the stationary growth phase, and that a temperature of 34°C but not 24°C influenced the expression. The expression of a majority of the proteins expressed in early Lyme disease is affected pH, being abundantly expressed at pH 7.0 (resembling the tick midgut pH of 6.8 during feeding) but only sparsely at pH 8.0 (a condition closer to that of the unfed tick midgut pH of 7.4). The encoding genes may be coregulated. The 35-kDa antigen has been shown to be a statistically significant marker in IgG immunoblots in a study of patients with early Lyme disease who presented with erythema migrans.

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Recombinant p35 protein may be useful as a diagnostic reagent, especially in combination with other antigens that have been deemed relevant in serodiagnosis of early Lyme disease.