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Monoclonal antibody against basic membrane protein A (BmpA)/P39 Borrelia burgdorferi [LA-109.2]

Product No. ADG0105L

Description

Lyme disease is the most common vector-borne disease in North America and Europe. The causative agent *Borrelia burgdorferi* is a bacterium that is maintained in an enzoonotic cycle between *Ixodes* ticks and a large range of mammals. The 39-kDa lipoprotein of *Borrelia burgdorferi*, BmpA, is highly immunogenic in humans and animals and is one of the antigens used in serodiagnostic tests for Lyme disease. BmpA is involved in borrelial pathogenicity, and participates in development of borrelial arthritis. *B. burgdorferi* BmpA is a laminin-binding protein.

Properties

The monoclonal antibody ADG0105L (**clone LA-109.2**) is a murine monoclonal antibody recognizing BmpA (P39). Mice were immunized with cell lysates of *Borrelia burgdorferi*. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

Presentation

Screw capped vial containing 1 mg of purified antibody in PBS pH 7.4 + 0.01% ProClin300. The IgG concentration is given on the vial label. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at $2^{\circ}-8^{\circ}C$. For long-term storage the antibody should be aliquoted and stored at $-20^{\circ}C$ or colder. It is recommended to avoid freeze-thaw cycles.

Applications

A. ELISA

The antibody can be used as capture antibody in ELISAs. An antibody concentration of 1-10 μ g/ml is recommended.

B. Westernblot

The antibody is suitable for Western blot analysis, detecting native and recombinant BmpA (P39) following SDS-PAGE under reducing conditions. A primary antibody concentration of 1-10 µg/mL is recommended.

C. Immunocytochemistry

The antibody can be used for immunocytochemistry on paraformaldehyde fixed spirochetes.

References

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