

Monoclonal antibody against outer membrane lipoprotein IpLA7 *Borrelia burgdorferi* [LA-7] Product No. ADG0115L

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 enzootic cycle between *Ixodes* ticks and a large range of mammals. IpLA7, an immunogenic outer membrane lipoprotein of *Borrelia burgdorferi*, produced during infection, has been shown to play a redundant role in mammalian infection. IpLA7 facilitates pathogen survival in all tested phases of the vector-specific spirochete life cycle, including tick-to-host transmission.

Properties

The monoclonal antibody ADG0115L (clone LA-7) is a murine monoclonal antibody, subclass IgG_{2a} recognizing IpLA7. 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. The IgG concentration is given on the vial label. Spin the vial briefly before opening.

Storage and Stability

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

Applications

A. ELISA

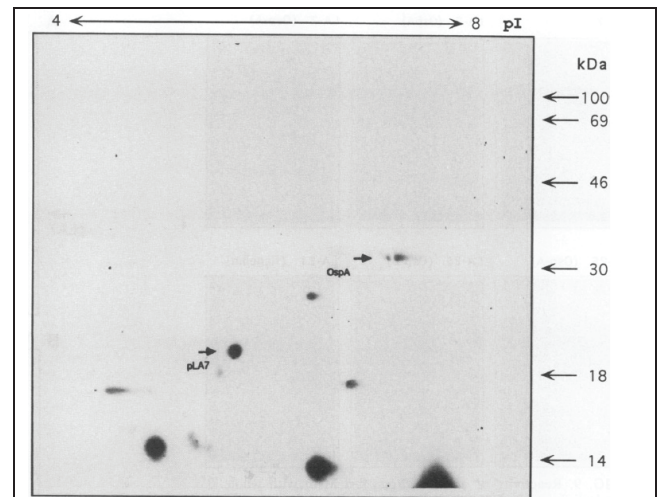
The antibody can be used as capture antibody in ELISAs. An antibody concentration of 1-10 µg/ml is recommended.

B. Westernblot

The antibody is suitable for Western blot analysis, detecting native and recombinant IpLA7 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.



2D gel of *Borrelia burgdorferi* lipoproteins, as identified by biosynthetic labeling with [³H]palmitate. pLA7=IpLA7

References

1. Characterization of *Borrelia burgdorferi* associated antigens by monoclonal antibodies. Kramer et al. *Immunobiol.* 1990; 181:357-366
2. Molecular and immunological characterization of a novel polymorphic lipoprotein of *Borrelia burgdorferi*. Wallich et al. *Infect. Immun.* 1993; 61(10):4158-4166
3. The lipoprotein La7 contributes to *Borrelia burgdorferi* persistence in ticks and their transmission to naïve hosts. Yang et al. *Microbes Infect.* 2013; 15:729-737
4. Immunolocalization of a 22 kDa protein (IpLA7, P22) of *Borrelia burgdorferi*. Grewe et al. *FEMS Microbiol. Lett.* 1996; 138:215-219
5. Recombinant low-molecular-mass proteins pG and LA7 from *Borrelia burgdorferi* reveal low diagnostic sensitivity in an enzyme-linked immunosorbent assay. Rauer et al. 2001; 39(5): 2039-2040

Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

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