

Monoclonal antibody against p83/100 (BB0744)
***Borrelia burgdorferi* [LA-114.1]**
Product No. ADG0111L

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. In Lyme disease, p83/100 is a known serodiagnostic antigen for Lyme infection. It is speculated that p83/100 is needed indirectly for the stabilization of an important cell envelope structure that provides adhesion to host cells.

Properties

The monoclonal antibody ADG0111L (clone LA-114.1) is a murine monoclonal antibody, subclass IgG₁ recognizing p83/100. 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 p83/100 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 permeabilized and fixed spirochetes.

References

1. Molecular and immunological characterization of the p83/100 protein of various *Borrelia burgdorferi* sensu lato strains. Rössler et al. *Med. Microbiol. Immunol* 1995; 184(1):23-32
2. Interpretation criteria for standardized Western blots for three European species of *Borrelia burgdorferi* sensu lato. Hauser et al. *J. Clin. Microbiol.* 1997;35(6):1433-1444
3. Genospecies and their influence on immunoblot results. Wilske et al. *Wien. Klin. Wochenschr.* 1998; 110(24):882-885
4. An improved recombinant IgG immunoblot for serodiagnosis of Lyme borreliosis. Wilske et al. *Med. Microbiol. Immunol.* 1999;188(3):139-144
5. Microbiological and serological diagnosis of Lyme borreliosis. Wilske et al. *FEMS Immunol. Med. Microbiol.* 2007;49(1):13-21
6. BB0744 affects tissue tropism and spatial distribution of *Borrelia burgdorferi*. Wager et al. *Infect. Immun.* 2015; 83(9):3693-3703

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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