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ImmBioMed GmbH & Co. KG
Bergstrasse 85, DE-64319 Pfungstadt
Phone: +49 6157 9799 685, Fax: +49 6157 86443

Monoclonal antibody against outer suface protein BBA36 *Borrelia burgdorferi* [A36-D4]

Product No. ADG0119L

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. Several *Borrelia burgdorferi* proteins are upregulated by temperature- and/or mammalian host-specific signals as the spirochete is transmitted from ticks to mammals. BBA36 outer surface protein was found to be up-regulated during transmission and infection process and is immunogenic in mammals.

Properties

The monoclonal antibody ADG0119L (**clone A36-D4**) is a murine monoclonal antibody, subclass IgG_1 recognizing BBA36. Mice were immunized with rec. BBA36 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 BBA36 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

1. Identification of 11 pH-regulated genes in *Borrelia burgdorferi* localizing to linear plasmids. Carroll et al. *Infect. Immun*. 2000; 68(12):6677-6684

2. Identification of *Borrelia burgdorferi* outer surface proteins. Brooks et al. *Infect. Immun*. 2006; 74(1):296-304

3. Diversity of antibody responses to Borrelia burgdorferi in experimentally infected beagle dogs. Baum et al. Clin. Vaccine Immunol. 2014; 21(6):838-846

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.