

Monoclonal antibody against outer surface protein BGA70 (zqa70) *Borrelia garinii* [70-11/10.17] Product No. ADG0150L

Description

Lyme disease is the most common vector-borne disease in North America and Europe. The causative agents of diverse *Borrelia* spp. are maintained in an enzootic cycle between *Ixodes* ticks and a large range of mammals. Several *Borrelia* outer surface proteins are upregulated by temperature- and/or mammalian host-specific signals as the spirochete is transmitted from ticks to mammals. BGA70 outer surface protein was found to be immunogenic in mammals.

Properties

The monoclonal antibody ADG0150L (clone 70-11/10.17) is a murine monoclonal antibody, subclass IgG₁ recognizing BGA70. Mice were immunized with rec. BGA70 of *Borrelia garinii*. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

Presentation

Vial containing 1 mg purified antibody in PBS pH 7.4. The 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 BGA70 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 and functional characterization of complement regulator-acquiring surface protein 1 of the Lyme disease spirochetes *Borrelia afzelii* and *Borrelia garinii*. Wallich et al. *Infect. Immun.* 2005; 73(4):2351-2359
2. *Borrelia burgdorferi* surface-localized proteins expressed during persistent murine infection are conserved among diverse *Borrelia* spp. Hughes et al. *Infect. Immun.* 2008; 76(6):2498-2511
3. BBA70 of *Borrelia burgdorferi* is a novel plasminogen-binding protein. Koenigs et al. *J. Biol. Chem.* 2013; 288(35):25229-25243
4. Evaluation of selected *Borrelia burgdorferi* lp54 plasmid-encoded gene products expressed during mammalian infection as antigens to improve serodiagnostic testing for early Lyme disease. Weiner et al. *Clin. Vaccine Immunol.* 2015; 22(11):1176-1186
5. Evaluation of in vivo expressed *Borrelia burgdorferi* antigens for improvement IgM serodiagnosis of early Lyme disease. Brandt et al. *Diagn. Microbiol. Infect. Dis.* 2019; 93(3):196-202

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