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Monoclonal antibody against complement regulator-acquiring protein 3 (CRASP-3/ErpP) BBN38 *Borrelia burgdorferi* [N38/1.1]

Product No. ADG0125L

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. Adaptation to the diverse environmental conditions, including sophisticated means of evading the vertebrate hosts' immune system, in particular complement occurs at the first line of defense following infection. *Borrelia burgdorferi* spirochetes express up to five complement regulator-acquiring surface proteins (CRASPs) binding human complement regulators.

Properties

The monoclonal antibody ADG0125L (**clone N38/1.1**) is a murine monoclonal antibody, subclass IgG_1 recognizing CRASP-3. Mice were immunized with rec. CRASP-3/ErpP 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

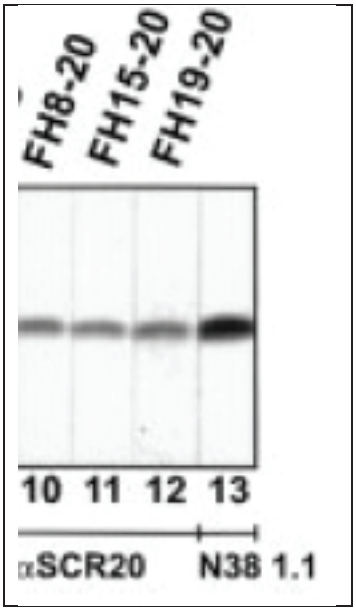
The antibody can be used as capture antibody in ELISAs. An antibody concentration of 1-10 µg/ml is recommended.

B. Immunocytochemistry

The antibody can be used for immune-cytochemistry on paraformaldehyde fixed spirochetes.

C. Westernblot

The antibody is suitable for Western blot analysis, detecting native and recombinant BbCRASP-3/ErpP following SDS-PAGE under reducing conditions. A primary antibody concentration of 1-10 µg/mL is recommended.



Rec. BbCRASP-3 was separated by 10% Tris/Tricine SDS-PAGE, and transferred to NC. Membrane was incubated with several constructs of factor H (FH8-20, FH15-20, or FH19-20). Bound proteins were visualized using antiserum specific for SCR20 of factor H or for BbCRASP-3 (N38/1.1)

References

1. Immune evasion of *Borrelia burgdorferi*: mapping of a complement inhibitor factor H-binding site of BbCRASP-3, a novel member of the ErpP protein family. Kraiczy et al. *Eur. J. Immunol.* 2003; 33:697-707
2. Immunological characterization of the complement regulator factor H-binding CRASP and Erp proteins of Borrelia burgdorferi. Kraiczy et al. Int. J. Med. Microbiol. 2004; 293 Suppl. 37:152-157
3. Coordinated expression of *Borrelia burgdorferi* complement regulator-acquiring surface proteins during the Lyme disease spirochete's mammal-tick infection cycle. Bykowski et al. *Infect. Immun.* 2007; 75(9):4227-4236
4. *Borrelia burgdorferi* infection-associated surface proteins ErpP, ErpA, and ErpC bind human plasminogen. Brissette et al. *Infect. Immun.* 2009; 77(1):300-306

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