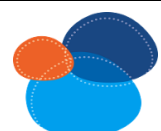


## Antibody Datasheet

<b>Product Name:</b>	Mouse anti <i>Borrelia burgdorferi garinii</i>
<b>Clone number:</b>	Bg14
<b>Isotype:</b>	Mouse IgG <sub>1</sub>
<b>Product code:</b>	MAB12250-100
<b>Batch Number:</b>	
<b>Amount:</b>	0.1mg
<b>Concentration:</b>	1 mg/ml
<b>Buffer:</b>	Phosphate Buffered Saline pH7.4
<b>Preservative:</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Purification:</b>	The antibody was purified by affinity chromatography on protein A sepharose.
<b>Specificity:</b>	This antibody is specific for <i>Borrelia burgdorferi garinii</i> .
<b>Applications:</b>	ELISA, WB, IF
<b>Secondary reagents:</b>	Goat anti mouse IgG:HRP (PAB21441HRP) Goat anti mouse IgG:FITC (PAB21441F)

**Antigen background:** *Borrelia burgdorferi garinii* is a spirochete belonging to the *Borrelia burgdorferi* sensu lato species complex of spirochetes. It is a member of the genus *Borrelia* of the family *Spirochaetaceae*. In nature, spirochetes are maintained in a transmission cycle between hard ticks of the *Ixodes* species and a reservoir of small to medium sized vertebrate, and in some cases birds. In humans, infection occurs through the bite of a tick infected with the spirochete. Infection with *B.burgdorferi* in humans can cause the condition known as Lyme disease or Lyme borreliosis. Five *Borrelia* species have been reported to infect humans including *B. burgdorferi* sensu stricto in North



America and Europe, *B. garinii*, *B. bavariensis*, *B. afzelii* in Europe and Asia, and *B. spielmanii* in Europe. *B. afzelii* and *B. garinii* account for most cases of Lyme disease in Europe ([Wang, G](#)), which are transmitted by the hard tick *Ixodes Ricinus* and maintained in small vertebrates and birds.

In humans, the most common clinical manifestation of infection is a large red rash, referred to as erythema migrans, which can vary in size and appearance. Additional symptoms include fever, chills, headache, fatigue, joint pains and swollen lymph nodes. However, in some severe cases, the infection may spread to joints, nervous system or heart and clinical symptoms including neck stiffness, arthritis, facial palsy, heart palpitations, nerve pain, numbness and memory loss may develop ([CDC](#)). Erythema migrans generally resolves without treatment. However, patients with Lyme disease are often treated with antibiotics to prevent dissemination and potential development of more severe clinical symptoms. Currently, no licensed vaccine to prevent *Borrelia burgdorferi* infection is available.

**References:**

Wang G, Liveris D, Mukherjee P, Jungnick S, Margos G, Schwartz I. 2014. Molecular Typing of *Borrelia burgdorferi*. *Curr Protoc Microbiol*. Aug 1;34:12C.5.1-31

Centers for Disease Control and Prevention: Lyme Disease

**Storage:**

Store at +4°C for up to three months, or at -20°C for longer periods  
The antibody is shipped at ambient temperature.  
Avoid repeated freeze/thaw cycles.

