

**BP1002HRP****Polyclonal Antibody to Borrelia burgdorferi - HRP**

<b>Quantity:</b>	1 ml
<b>Concentration:</b>	1-2 mg/ml (OD280 nm, E0.1% = 1.4)
<b>Background:</b>	<p><i>Borrelia burgdorferi</i> is a spirochete and the cause of Lyme disease, a tick transmitted illness of humans and animals. <i>B. burgdorferi</i> may persist in humans and animals for months or years following initial infection, despite a robust humoral immune response.</p> <p><i>B. burgdorferi</i> resembles other spirochetes in that it is a highly specialized, motile, two-membrane, spiral shaped bacteria which lives primarily as an extracellular pathogen. <i>B. burgdorferi</i> has an unusual genome compared with other eubacteria which includes a linear chromosome approximately one megabase in size and numerous linear and circular plasmids.</p>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Whole cell preparation from <i>B. burgdorferi</i> .
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig fraction <b>Buffer System:</b> PBS <b>Preservatives:</b> 0.002% Thimerosal <b>Stabilizers:</b> 10 mg/ml BSA <b>Label:</b> HRP – Highly purified preparation of horseradish peroxidase (RZ&gt;3). Care is taken to ensure adequate conjugation while preserving maximum enzyme activity. Free enzyme is removed <i>Molar Ratio:</i> Estimated molar HRP: IgG substitution is 2-3.</p>
<b>Applications:</b>	<p><b>Western blot.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry on Formalin-Fixed Paraffin Sections.</b> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>Reactive Western blot bands at 83 kD, 41 kD, 34 kD, 31 kD and additional low MW bands. Cross-reacts with <i>Treponema pallidum</i>, <i>B. hermsii</i> and <i>B. parkerii</i>.</p>
<b>Storage:</b>	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>
<b>Caution:</b>	Use of sodium azide as a preservative will substantially inhibit the enzyme activity of horseradish peroxidase.
<b>Product Citations:</b>	<p><b>Purchased from Acris:</b> <i>Unconjugated antibody is cited in:</i> 1. Eisendle K, Grabner T, Kutzner H, Zelger B. Possible role of <i>Borrelia burgdorferi</i> sensu lato infection in lichen sclerosis. Arch Dermatol. 2008 May;144(5):591-8. doi: 10.1001/archderm.144.5.591. PubMed PMID: 18490585.</p>

**General Readings:**

1. Marques AR, Hornung RL, Dally L, Philipp MT. Detection of immune complexes is not independent of detection of antibodies in Lyme disease patients and does not confirm active infection with *Borrelia burgdorferi*. Clin Diagn Lab Immunol. 2005 Sep;12(9):1036-40. PubMed PMID: 16148168.