

Anti-ospA antibody ab106081

1 Image

Overview

Product name	Anti-ospA antibody
Description	Rabbit polyclonal to ospA
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Borrelia burgdorferi
Immunogen	Fusion protein corresponding to ospA. Database link: P0CL66
Positive control	Borrelia burgdorferi recombinant ospA protein.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.88% Sodium chloride
Purity	Protein A purified
Purification notes	ab106081 is cross-adsorbed against MBP from monospecific antiserum by chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab106081 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 29 kDa.

Target

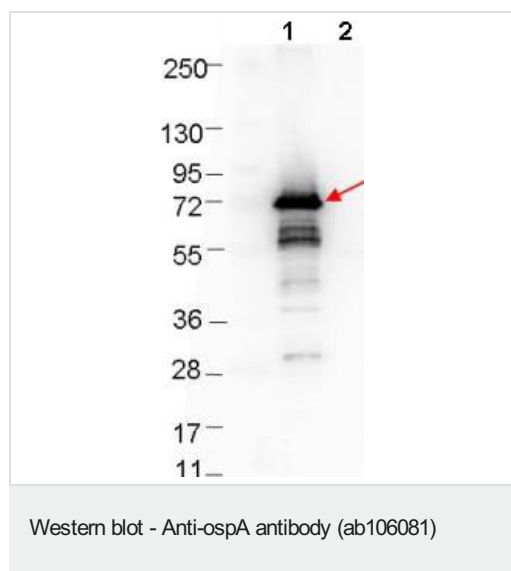
Relevance

Outer-Surface Protein A (OspA), a lipoprotein from *Borrelia burgdorferi* encoded on its Plasmid lp54, is a major component of the spirochete's extracellular matrix. OspA probably serves as a lipid-anchor. The spirochetes migrate from the tick midgut during feeding to its salivary glands and are thus transmitted to the mammal host. This transition may be facilitated by changes in expression of some *B. burgdorferi* genes. Upon transmission of the spirochete from the Ixodes tick to mammalian host, the transcript level of OspA can change. It is believed that expression of the various proteins associated with the spirochete may be regulated by the changes in tick life cycle, changes in conditions during tick feeding (such as temperature, pH, and nutrients) and/or in coordination with the course of infection of the mammal host. *B. burgdorferi* can attach to (and also differentially express antigens in) diverse tissues within the vertebrate host and the tick vector, suggesting that physiological factors other than pH and temperature may play roles in modulating *B. burgdorferi* gene expression.

Cellular localization

Cell outer membrane; Lipid-anchor.

Images



All lanes : Anti-ospA antibody (ab106081) at 1/1000 dilution

Lane 1 : MBP-ospA fusion protein

Lane 2 : MBP alone

Lysates/proteins at 0.1 µg per lane.

Secondary

All lanes : Goat-anti-Rabbit HRP at 1/40000 dilution

Predicted band size: 29 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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