Antibody Datasheet

Product Name: Rabbit anti *Borrelia burgdorferi* OspA

Product: Purified rabbit anti OspA antibody, unconjugated

Product Type: Polyclonal

Isotype: Rabbit IgG

Product code: PAB21454-100

Batch Number: R001218

Amount: 0.1 ml (1.0 mg/mL by UV absorbance at 280 nm)

Physical State: Lyophilized

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Reconstitution Vol: 100 µL

Reconstitution Buffer: Deionized water (or equivalent)

Preservative: 0.01% (w/v) Sodium Azide

Immunogen: Recombinant MBP tagged *B. burgdorferi* OspA protein

Purification: Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography

Specificity: This antibody is specific for *Borrelia burgdorferi* OspA protein. A BLAST analysis was used to suggest cross-reactivity with OspA from *B. burgdorferi* and sources based on 100% homology with the immunizing sequence. Cross-reactivity with OspA or Osp from other sources has not been determined.

Applications: ELISA (1:5000), WB (1:1000)
Storage:

Store at 4°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Antibody is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use.

Western blot showing detection of 0.1 µg of recombinant OspA protein. Lane 1: Molecular weight markers. Lane 2: MBP-OspA fusion protein (arrow; expected MW: 70.5 kDa). Lane 3: MBP alone. Protein was run on a 4-20% gel, then transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS overnight at 4°C, primary antibody was used at 1:1000 at room temperature for 30 min. HRP-conjugated Goat-Anti-Rabbit secondary antibody was used at 1:40,000 in blocking buffer and imaged on the VersaDoc™ MP 4000 imaging system (Bio-Rad).