

Anti-OspA [LA-2] Standard Size Ab01070-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Mouse IgG2b, [Fc Silent™](#), Kappa

Clone Number: LA-2

Alternative Name(s) of Target: Outer surface protein A

UniProt Accession Number of Target Protein: P0A3N6

Published Application(s): IP, NTRL, WB, IF

Published Species Reactivity: *Borrelia burgdorferi*

Immunogen: This antibody was generated by immunising mice.

Specificity: Recognises the three surface-exposed loops of the C-terminal domain of OspA that are on the tip of the elongated molecule most distant from the lipid-modified N-terminus. The residues involved in these loops are: 203-220, 224-233, and 246-257.

Application Notes: LA-2 binds to *Borrelia Burgdorferi*, the causative agent of Lyme disease (Borreliosis) has been used in serological analyses of *B. burgdorferi* isolates by immuno-blotting and immunofluorescence (Kramer et al, 1990). This antibody has also been applied to affinity purification of OspA. This antibody neutralised *B. burgdorferi* infectivity when passively transferred to SCID mice (Schaible et al, 1990).

Antibody First Published in: Wilske et al. Antigenic Variability of *Borrelia burgdorferi* Ann N Y Acad Sci. 1988;539:126-43. [PMID:2461135](#)

Note on publication: Describes the use of monoclonal and polyclonal antibodies to characterise proteins of *B. burgdorferi* by Western Blot.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.