Anti-OspA [184.1] Standard Size Ab01572-205.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

> This chimeric dog antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: , Kappa

Clone Number: 184.1

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

UniProt Accession Number of Target Protein: P0A3N6

Published Application(s): crystallisation, WB, ELISA

Published Species Reactivity: Borrelia burgdorferi

Immunogen: BALB/c mice were immunised by injection of B. burgdorferi sonicated preparations. Splenocytes were obtained from immunised mice and fused with X63-Ag8 myeloma cells to generate hybridomas.

Specificity: 184.1 was shown to react specifically with a common OspA epitope shared by a homologous protein of lower molecular weight (Jiang et al, 1990). Based on N-terminal sequencing and reactivity of 184.1 against truncated versions of OspA, it was concluded that 184.1 recognises an N-terminal epitope of OspA. This was corroborated by a crystal structure of the OspA-184.1 Fab structure (Li et al, 1997), which showed that 184.1 binds a well-ordered beta sheet arrangement near the N-terminus.

Application Notes: 184.1 was used in Western blots and ELISA to determine specificity against B. burgdorferi major surface proteins (Jiang et al, 1990).

Antibody First Published in: Jiang et al. Cross-antigenicity between the major surface proteins (ospA and ospB) and other proteins of Borrelia burgdorferi. J Immunol. 1990 Jan 1;144(1):284-9. PMID:2295795

Note on publication: Describes the generation and use of mAbs against B. burgdorferi to characterise structural heterogeneity between the major surface proteins OspA and OspB.

Product Form

Size: 50 μg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4⁰C for up to 3 months. For longer storage, aliquot and store at -

20ºC.
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.