

Anti-OspA [184.1] Standard Size Ab01572-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, 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: 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.