

***Borrelia burgdorferi* OspA**

Antigen Specification

Product Number: 41200

Description:

Borrelia burgdorferi (strain B31) outer surface protein A (OspA). Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG-type human antibodies.

Origin:

Recombinant. Expressed in *E. coli* bacterial cells.

Expression construct:

Full-length cDNA coding for *Borrelia burgdorferi* OspA fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with patient sample.

Calculated molecular weight:

29 kDa

Calculated isoelectric point:

pH 8.38

Endotoxin content:

Tested by LAL (Limulus Amoebocyte Lysate) chromogenic endotoxin assay.

Immunological tests/Functionality:

Immunodot analyses with Lyme disease positive/negative samples; suitable for LTT (lymphocyte transformation test) and T cell stimulation assays.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

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