

***Borrelia burgdorferi* DbpA**

Antigen Specification

Product Number: 40400

Description:

Borrelia burgdorferi (strain B31) decorin-binding protein A (DbpA). Recombinant antigen for in vitro research and manufacturing use only.

Calculated molecular weight:

20 kDa

Calculated isoelectric point:

pH 7.77

Immunological function:

Binds IgG- and IgM-type human antibodies.

Endotoxin content:

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

Origin:

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

Immunological tests/Functionality:

Immunodot analyses with Lyme disease positive/negative samples; suitable for LTT (lymphocyte transformation test) and ELISPOT (enzyme-linked immunospot).

Expression construct:

Full-length cDNA coding for *Borrelia burgdorferi* DbpA fused to a hexahistidine purification tag.

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.

Biochemical tests:

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

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