

***Borrelia burgdorferi* NapA**

Antigen Specification

Product Number: 41300

Description:

Borrelia burgdorferi (strain B31) neutrophil activating protein A (NapA). Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG- and IgM-type human antibodies.

Origin:

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

Expression construct:

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

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with anti-His-tag antibody.

Calculated molecular weight:

22 kDa

Calculated isoelectric point:

pH 5.81

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), T cell stimulation assays, and ELISPOT (enzyme-linked immunospot).

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.

Remark:

Testing at DIARECT has shown that antibody reactivity is rarely, if at all, observed in samples of Lyme disease patients. Therefore the NapA antigen is currently only recommended for cellular assays, but not for serological analysis.

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