

## ***Borrelia burgdorferi* NapA**

### **Antigen Specification**

**Product Number: 41300**

**Description:**

*Borrelia burgdorferi* neutrophil activating protein A (NapA).  
Recombinant antigen for research use or manufacturing only.

**Origin:**

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

**Expression construct:**

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

**Biochemical tests:**

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

**Calculated molecular weight:**

22,094 Dalton

**Calculated isoelectric point:**

pH 5.81

**Endotoxin content:**

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

**Immunological tests/Functionality:**

Immunodot test with Lyme disease positive/negative plasma; 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 DIALECT has shown that antibody reactivity is rarely, if at all, observed in sera of Lyme disease patients. Therefore the NapA antigen is currently only recommended for cellular assays, but not for serological analysis.

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