

## ***Borrelia afzelii* OspA**

### **Antigen Specification**

**Product Number: 41000**

**Description:**

*Borrelia afzelii* (strain pKo) outer surface protein A (OspA).  
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 afzelii* 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 8.31

**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).

**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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