

## ***Borrelia afzelii* p100**

### **Antigen Specification**

**Product Number: 42300**

**Description:**

*Borrelia afzelii* (strain pKo) p100 protein (p100/p83).  
Recombinant antigen for in vitro research and manufacturing use only.

**Immunological function:**

Binds IgG- and IgM-type human antibodies.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

Full-length cDNA coding for *Borrelia afzelii* p100 fused to a deca-histidine purification tag.

**Biochemical tests:**

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

**Calculated molecular weight:**

75 kDa

**Calculated isoelectric point:**

pH 5.0

**Endotoxin content:**

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

**Immunological tests/Functionality:**

Immunodot analyses with Lyme disease positive/negative samples.

**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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