

***Borrelia burgdorferi* p41**

Antigen Specification

Product Number: 40200

Description:

Borrelia burgdorferi (strain B31) p41 protein.

Recombinant antigen for in vitro research and manufacturing use only.

Calculated molecular weight:

37 kDa

Calculated isoelectric point:

pH 5.99

Immunological function:

Binds IgG- and IgM-type human antibodies.

Endotoxin content:

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

Origin:

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

Immunological tests/Functionality:

Immunodot analyses with Lyme disease positive/negative samples; suitable for LTT (lymphocyte transformation test).

Expression construct:

Full-length cDNA coding for *Borrelia burgdorferi* p41 fused to a hexahistidine purification tag.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH. 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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