

***Borrelia burgdorferi* p45**

Antigen Specification

Product Number: 41500

Description:

Borrelia burgdorferi (strain B31) p45 protein.

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 burgdorferi* p45 fused to a deca-histidine purification tag.

Biochemical tests:

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

Calculated molecular weight:

45 kDa

Calculated isoelectric point:

pH 8.98

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.

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