

Bartonella

IgM and IgG



PURPOSE

The Bartonella IgM and IgG Western Blots are designed to detect IgM and IgG antibodies to Bartonella species including Bartonella henselae, B. quintana, B. elizabethae and B. vinsonii antigens in serum of patients suspected of having Bartonella infection. For diagnostic purposes, the Bartonella Western Blot test results should be used in conjunction with clinical symptoms and other evidence available to the diagnosing physician.

PRINCIPLE

A blot prepared from cell lysates of 4 species of Bartonella: B. henselae, B. quintana, B. elizabethae and B. vinsonii is incubated with patient's serum. Bartonella specific antibodies, if present in the patient's serum, bind to the corresponding antigen(s) on the blot. After washing off the unbound serum, the blot is incubated with goat anti-human IgG or goat anti-human IgM antibody conjugated with alkaline phosphatase. Bound antibodies react with BCIP/NBT, a chromogenic substrate. A dark purple colored precipitate develops on the antigenantibody complexes.

PERFORMANCE CHARACTERISTICS

Based on a study performed on 63 well-characterized clinical samples, 32 samples confirmed as being positive for antibodies to Bartonella and 31 samples negative for

Bartonella and positive for antibodies to other tick-borne pathogens, the sensitivity of the Bartonella Western Blot test is 97% and the specificity is 100%.

ADVANTAGES

- Bartonella IgM/IgG Western blot tests have very high sensitivity and specificity for detecting Bartonella specific antibodies in patient's serum and speciating Bartonella positive samples to B. henselae, B. quintana, B. elizabethae and B. vinsonii. Thus, it is a very useful diagnostic tool for Bartonella infection.
- Every Bartonella species has some Bartonella genus specific antigens and some species specific antigens. Therefore, other species will be detected too, but will not be speciated.
- Western Blot results can be obtained in a much shorter time than culture tests, which can take up to a month.

INCLUDED ANTIGENS

B. henselae
B. elizabethae

 B. guintana B. vinsonii

SAMPLE REQUIREMENT: 1.0 ml serum

TEST NUMBER: 351* Bartonella IgM Western Blot

> 352* Bartonella IgG Western Blot

CPT CODF: 86611 x 8

*Tests/Panels not available for NY Residents