

## KNOW YOUR TICKS

WHERE THEY LIVE AND THE DISEASES THEY CARRY

### AMERICAN DOG TICK

Rickettsiosis,  
Tularemia



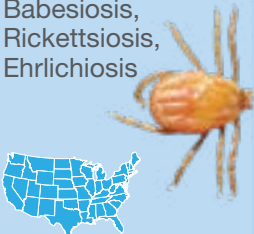
### EASTERN BLACKLEGGED TICK

Lyme disease,  
Babesiosis, TBRF,  
Rickettsiosis,  
Ehrlichiosis,  
Anaplasmosis



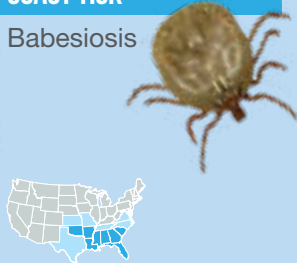
### BROWN DOG TICK

Babesiosis,  
Rickettsiosis,  
Ehrlichiosis



### GULF COAST TICK

Babesiosis



### LONE STAR TICK

Ehrlichiosis, STARI,  
Heartland Virus



### ROCKY MOUNTAIN WOOD TICK

Rickettsiosis,  
Tularemia



### WESTERN BLACKLEGGED TICK

Lyme disease,  
Babesiosis, TBRF,  
Rickettsiosis,  
Ehrlichiosis,  
Anaplasmosis



### SOFT TICKS

TBRF



NO OTHER LAB CAN DO  
WHAT **IGeneX** CAN DO

#### AVAILABLE IGENEX TESTS

DISEASE	TESTS
Lyme disease	ImmunoBlots, IgXSpot, Western Blots, IFA, PCR, LDA, BCA
TBRF	ImmunoBlots, PCR, BCA
Bartonellosis	ImmunoBlots, IgXSpot, IFA, FISH, PCR
Babesiosis	ImmunoBlots, IFA, FISH, PCR
Rickettsiosis	IFA, PCR
Ehrlichiosis	IFA, PCR
Anaplasmosis	IFA, PCR

#### WHY IGENEX?

IGeneX is certified by CLIA to perform high-complexity tests in all 50 states. IGeneX also holds licenses and permits for individual states that require separate state licensures. Including New York. This demonstrates that IGeneX meets the quality of standards at state and federal levels.



#### CONTACT IGENEX

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## OUTPERFORMING OTHER LABS IN THE US AND WORLDWIDE

For over 30 years, IGeneX has been producing the industry's most effective diagnostic tests for Lyme disease and other tick-borne diseases.



*Better Results Through Better Testing.*

[www.igenex.com](http://www.igenex.com)



**AT IGENEX,  
IT'S ABOUT MORE**

**MORE DISEASES**

Lyme disease is not the only tick-borne illness. 40% of Lyme positive patients carry a co-infection. IGeneX tests for them all.

- Bartonella - Tick-Borne Relapsing Fever (TBRF) -
- Babesia - Rickettsia - Ehrlichia - Anaplasma

**MORE SPECIES**

Tick-borne diseases can occur from multiple species. IGeneX detects many of them.

- B. hermsii* - *B. californiensis* - *B. miyamotoi* - *B. duncani*
- B. mayonii* - *B. burgdorferi* - *B. afzelii* - *B. coriaceae*
- B. microti* - *B. garinii* - *B. spielmanii* - *B. valaisiana*
- B. parkeri* - *B. turicatae* - *B. henselae* - *B. quintana*
- B. elizabethae* - *B. vinsonii* - *E. chaffeensis*
- R. rickettsia* - *R. typhi* - *A. phagocytophilum*

**MORE METHODS**

Everyone's reaction to an infection is different - which is why IGeneX uses a variety of direct and indirect test methods. Direct methods look for the parasite, while indirect tests look for antibodies.

- PCR - ImmunoBlot - FISH - Western blot
- IFA - IgXSpot - ELISA - LDA

**IGENEX  
IMMUNOBLOT SETS  
THE STANDARD**

**FAR BETTER  
THAN A COIN FLIP**

Common Lyme two-tier testing has a sensitivity of just above 50% because it detects only one *Borrelia* species, *B. burgdorferi* B31. The IGeneX ImmunoBlot detects antibodies to eight different species of *Borrelia*.



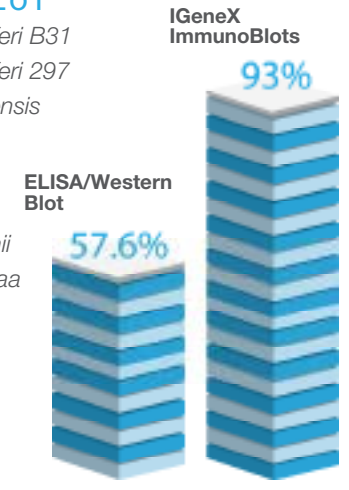
**NOW AVAILABLE FOR LYME, TBRF,  
BARTONELLA, AND BABESIA**

**STANDARD TESTS**

- ✓ *B. burgdorferi* B31

**IGENEX IMMUNOBLOT**

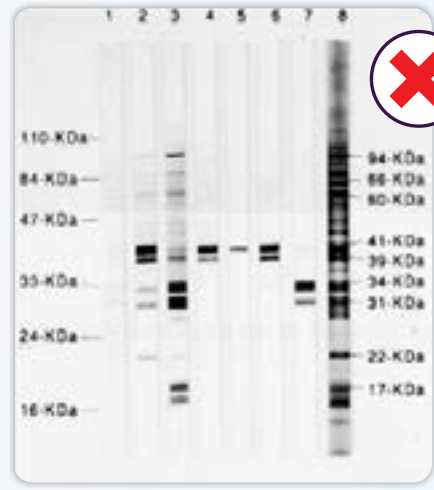
- ✓ *B. burgdorferi* B31
- ✓ *B. burgdorferi* 297
- ✓ *B. californiensis*
- ✓ *B. mayonii*
- ✓ *B. afzelii*
- ✓ *B. garinii*
- ✓ *B. spielmanii*
- ✓ *B. valaisiana*



Source: Waddell LA, Greig J, Mascarenhas M, Harding S, Lindsay R, Ogden N (2016) The Accuracy of Diagnostic Tests for Lyme Disease in Humans. PLoS ONE 11(12): e0168613.

**THE DIFFERENCE IS CLEAR**

**Western blot**



**IGenex ImmunoBlot**



The IGenex ImmunoBlot replaces the Western blot. Western blots are blurry, difficult to read, and lead to misdiagnosis. ImmunoBlots are clear, precise, and much easier to interpret.