Fast, accurate testing to determine the immune system's response to the SARS-CoV-2 vaccine.



COVID-19 VACCINE RESPONSE TEST



Is the vaccine protecting your patient?

COVID-19 vaccines trigger antibodies to help our bodies develop immunity to the virus. The current vaccines are designed to provoke a strong response to the most dangerous elements of the virus, called spike proteins. There are three possible immune responses generated by a successful vaccine: the production of B cells or T cells — or both.

B CELLS

Antibodies produced by B cells attack the virus directly. Ideally, antibodies would be active for a long time, but studies so far indicate that COVID-19 antibodies are relatively short-lived. This response is similar to that seen for other types of coronaviruses, such as the common cold or influenza.

T CELLS

The second line of defense is provided by T cells. Unlike B cells, T cells do not attack the virus directly, but instead target infected cells — thus stopping the virus from reproducing. Recent data indicate that T cells have the ability to provide longer-term protection against COVID-19.



Give your patients the information they need to get their life back.

Positive test results do not guarantee immunity from COVID-19. However, the results may be helpful in determining the following:

- ✓ Is my patient producing COVID-19 antibodies?
- ✓ Are my patient's t-cells activated?
- ✓ Will my patient need another vaccine dose?
- ✓ Is my patient protected from others?
- Does my patient have natural immunity?
- ✓ Are my patient's lingering symptoms from COVID-19?



COVID-19 VACCINE RESPONSE TESTS* **OFFERED BY IGENEX**

IGeneX is now offering the COV5T SARS-CoV-2 Vaccine Response Panel, which tests for antibody response and T-cell response. The panel consists of two SARS-CoV-2 ImmunoBlot tests (one for IgM, one for IgG), and a SARS-CoV-2 IgXSpot test. ImmunoBlots measure antibody response from activation of B cells, and IgXSpot measures T-cell reactivity. The vaccine response test panel can also be used to monitor immunity post-natural infection because it tests for all COVID-19 antigens, not just those present in the vaccine.

IMMUNOBLOTS

Detects both early (IgM) and late stage (IgG) antibodies against SARS-COV-2. Antibody positivity likely means a patient has protective immunity. The ImmunoBlot detects four antigen bands: 25kDa, 50kDa, 58kDa, 75kDa, and is considered positive if two or more bands are present. Other vaccine response tests measure reaction to only the spike proteins, making them unable to distinguish natural versus vaccine immunity.

SENSITIVITY: IgM 70%; IgG 91% SPECIFICITY: IgM 99.5%; IgG 99.5%

IGXSPOT

Detects specific T-cell response soon after vaccination, when antibodies to the organisms are not detectable. Allows for visualization of the secretory product(s) of individually activated or responding cells to SARS-CoV-2 specific antigens. Each spot that develops in the assay represents a single reactive cell. A positive test result indicates that the T-cells have not only been previously exposed to the virus, but that they are active and ready to initiate defense against the infection. When combined with ImmunoBlots, IgXSpot provides information on the full spectrum of a patient's immune response.

RESULTS INTERPRETATION: Positive: > or = 3 SFU, Negative: < or = 2 SFU

SAMPLE IMMUNOBLOT



The ImmunoBlot is positive if two or more of the following bands are present: 25kDa, 50kDa, 58kDa, and 75kDa.



WHY IGENEX?

IGeneX is a leading provider of COVID-19 testing for hospitals, employers, schools, professional sports teams, and airline travelers. We are pleased to be one of the few CLIA-certified labs that offers PCR, antibody, and T-cell testing for COVID-19. Our goal is to give physicians the information needed to help their patients get back to living normal, safe lives.



CONTACT IGENEX TODAY TO GET STARTED! 556 Gibraltar Rd. Milpitas, CA 95035 igenex.com | 1-800-832-3200

*Positive test results do not guarantee immunity from COVID-19. Results are for informational purposes only.