CovAb™

SARS-CoV-2 Ab Test

CovAb™ Oral Fluid Comprehensive Antibody Test for Assessment of Immune Response to COVID-19 Vaccination

Presence of antibodies = Immunity

https://www.cdc.gov/coronavirus/2019-ncov/testing/serology-overview.html#:~:text=Having%20antibodies%20to%20the%20virus,this%20protection%20may%20last.

What do your (antibody test) results mean?

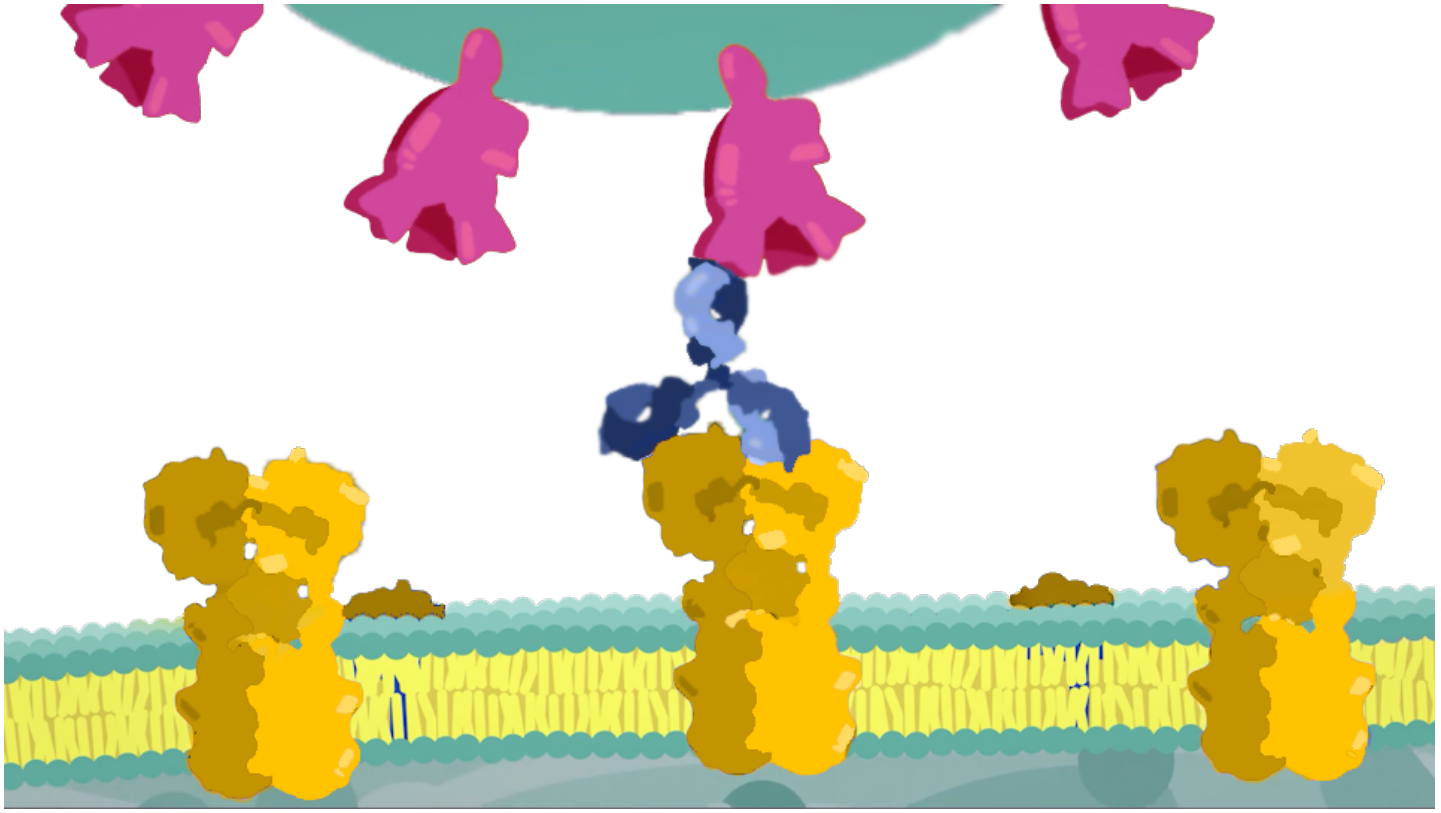
If you test positive

- A positive test result shows you may have antibodies from an infection with the virus that causes COVID-19. However, there is a chance that a positive result means you have antibodies from an infection with a different virus from the same family of viruses (called coronaviruses). Note: Other coronaviruses cannot produce a positive result on a viral test for SARS-CoV-2.
- Having antibodies to the virus that causes COVID-19 may provide protection from getting infected with the virus again. But even if it does, we do not know how much protection the antibodies may provide or how long this protection may last. Confirmed and suspected cases of reinfection have been reported, but remain rare.
- Talk with your healthcare provider about your test result and the type of test you took to understand what your result means. Your provider may suggest you take a second type of antibody test to see if the first test was accurate.

Clinical Study

- A total of 160 subjects were screened with the CovAb™ antibody test
- 77 subjects from a COVID-19-naïve cohort who tested negative with the CovAb™ antibody test prior to vaccination were tested 28-29 days after the first dose of the (Covishield, AstraZeneca) vaccine.
- 57 subjects from the same COVID-19-naïve cohort were also tested 14 days after the second dose of the vaccine.
- 83 subjects from a COVID-19-exposed cohort were tested 18-20 days after the first dose of the vaccine.

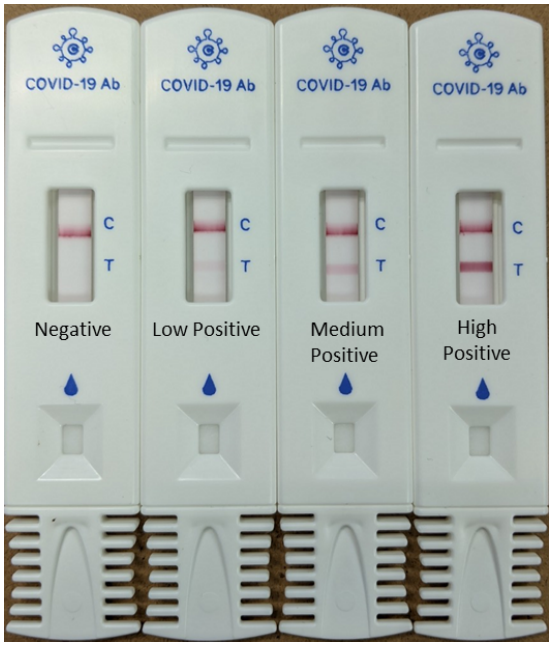
Neutralizing antibodies prevent the spike proteins of the Covid-19 virus from entering the human cells.



CovAb™ antibody test

- **CovAb™ antibody test is designed with S1 Spike protein antigen for detection**
- **S1 spike protein captures neutralizing antibodies against S1 protein produced by the vaccine or infection**
- **Presence of neutralizing antibodies provides protection from serious re-infection**

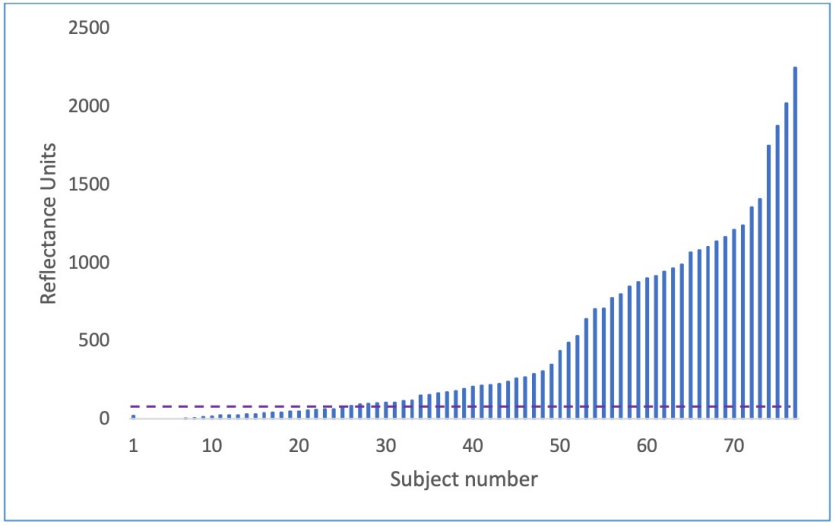
CovAb™ SARS-CoV-2 antibody test to confirm immune response to vaccination and protection

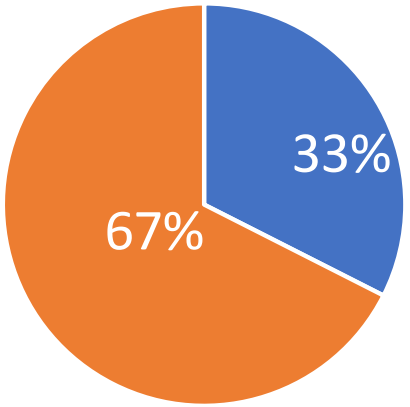


- Negative = no response and not protected
- Low positive = Low levels of neutralizing antibodies, protected
- Medium positive = good levels of neutralizing antibodies, protected
- High positive = Strong response and longer duration of protection

SARS-CoV-2 vaccine immune response 28-29 days after the first dose.

COVID-19-naïve cohort



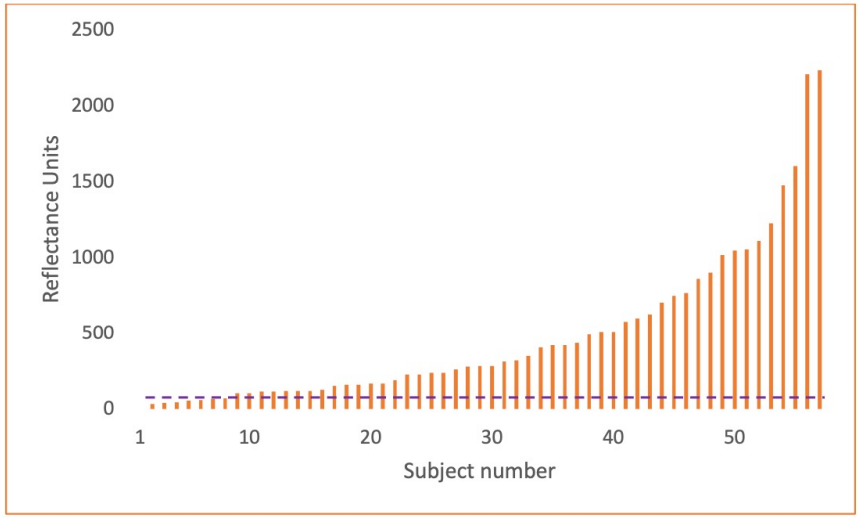


Antibody-negative
Antibody-positive

Positive
Negative

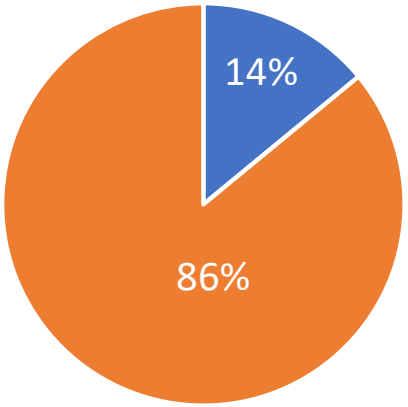
SARS-CoV-2 vaccine immune response 14 days after second dose.

COVID-19-naïve cohort



Positive

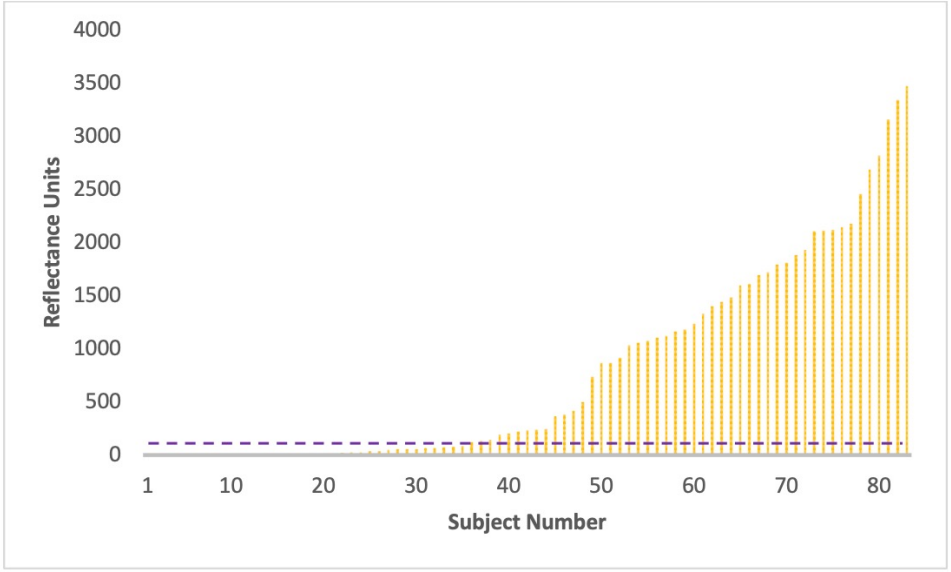
Negative



Antibody-negative
Antibody-positive

SARS-CoV-2 vaccine immune response in COVID-19-exposed cohort 18-20 days after first dose

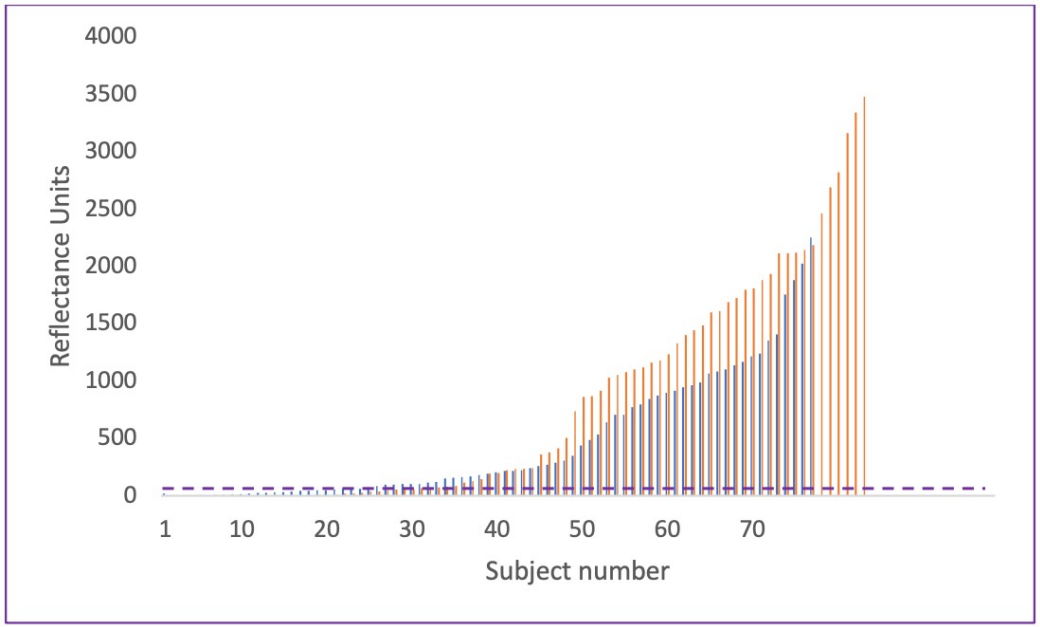
COVID-19-exposed cohort



Positive

Negative

Temporal response to vaccination is different in COVID-19-naïve and COVID-19-exposed cohorts



COVID-19-naïve cohort

COVOD-19-exposed cohort

Summary

- 33% of COVID-19-naïve subjects did not develop detectable antibodies by 28-29 days after first dose.
- 14% of COVID-19-naïve subjects did not develop detectable antibodies by 14 days after the second dose.
- COVID-19-naïve subjects exhibited lower antibody titers compared to COVID-19-exposed subjects.
- **CovAb™ Comprehensive Antibody Test provides post-vaccination confirmation of an adaptive antibody response.**

CovAb™

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THANK YOU

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